# SONY

#### Sony Biotechnology

FITC Annexin V Apoptosis Detection Kit with 7-AAD Date issued: June 3rd, 2014

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# SAFETY DATA SHEET

1.	Identification						
1.1.	Product Name		FITC Annexin V Apoptosis Detection Kit with 7-AAD				
	Catalog No.		3804610				
	Recommended Use		Research use only.				
1.2.	Supplier Address Telephone, fax, email		SONY BIOTECHNOLOGY INC. 1730 North First Street, San Jose, CA 95112 U.S.A. Voice: +1 800-275-5963, FAX: +1 408-352-4130, SBTcustomerservice@sonybiotechnology.com				
1.3.	3. Emergency telephone number		ln case of a chemical emergency, spill, fire, or exposure, US: +1 800-275-5963 (6:00AM – 5:30PM PT, M-F))				
2.	Hazards Identific	ation					
2.1.	Hazard Classification		Not classified				
2.2.	. GHS Label elements, including precauti			tionary statements			
	Pictogram		None				
	Signal Word Hazard Statement		None				
			None				
	Precautionary Statement		None				
3.	Composition/Information on Ing		redient	is			
Con	nponent	CAS		EINECS	EU Index	Concentration	
7-A/	AD	7240-37-1		N/A	N/A	<0.1%	
Sod	lium Azide	26628-22-8		247-852-1	011-004-00-7	0.09%	
4.	First Aid Measures						
4.1.	Description of necessary first aid measures						
	General information After inhalation		Symptoms of poisoning may even occur after several hours; therefore provide medi- cal observation for at least 48 hours after the accident.				
			Move to fresh air. If breathing is difficult/has stopped, give artificial respiration using respiratory protection. Do not use mouth-to-mouth method of resuscitation. Seek medical attention.				
	After skin contact		Immediately remove contaminated clothes, andwash with soap and copious amounts of water. Seek immediate medical attention.				

After eve contact Immediately flush eyes with plenty of water for at least 15 minutes,

After eye contact	occasionally lifting the eye lids to ensure thorough rinsing. Seek medical attention.
After swallowing	Wash mouth out with water if person is conscious. DO NOT induce vomiting. Drink copious amounts of water, milk, or milk magnesia if conscious. Seek medical attention.

Symptoms

Contact may cause skin irritation. Contact may cause eye irritation.

FITC Annexin V Apoptosis Detection Kit with 7-AAD

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5.1Suitable extinguishing agentsCO2, extinguishing powder or water spray. Fight larger fires with water spray oralco- hol resistant foam.5.2.Special hazards caused by the material, its products of combustion or resulting gasesDuring heating or in case of fire, poisonous gases may be produced.5.3.Special protective equipment and precautions for fire-fightersWear protective clothing and self-contained breathing apparatus.5.4.Hazardous combustion materialsNo data available.6.Accidental Release Measures6.1.Personal precautions, protective equipment and emergency proceduresNot required6.2.Environmental precautionsPrevent entry into waterways, drains, soil, and sewers.Use suitable absorbent material.6.3.Measures for cleaning/collectingAbsorb with liquid-binding material (sand, diatomite, acid binders). Uniformation on safe handling. See Section 17 for information on personal protection equipment. See Section 13 for disposal information.7.Handling and StorageNo special measures required.7.Conditions for safe storage, including any incompatibilitiesDo not store together with oxidizing and acidic materials as well as heavy-metal compounds.					
And Source Controls of sum of the context of the c	5.	Fire-Fighting Measures			
material, its products of combustionDuring heating or in case of fire, polsonous gases may be produced.5.3.Special protective equipment and precautions for fire-fightersWear protective clothing and self-contained breathing apparatus.5.4.Hazardous combustion materialsNo data available.6.Accidental Release Measures5.1.Personal precautions, protective equipment and emergencyNot required6.2.Environmental precautionsPrevent entry into waterways, drains, soil, and sewers. Use suitable absorbent acid binders, universal binders). Do not allow to enter any water system.6.3.Measures for cleaning/collectingSee Section 7 for information on safe handling. See Section 17 for information on personal protection equipment. See Section 13 for disposal information.7.Handling and StorageDo not store together with oxidizing and acidic materials as well as heavy-metal compounds.8.Exposure Controls / Personal Precettor8.1Exposure Controls / Personal protection replan9.1Information for safe storage. compounds.9.2Exposure Controls / Personal Protection9.3ReL9.4Euling -0.2 mg/m39.1ReL9.1Euling -0.3 mg/m39.2Eposure controls9.2Eposure controls9.3Personal protective equipment9.4Euling -0.3 mg/m39.4Euling -0.3 mg/m39.5Personal protective equipment9.6Euling -0.3 mg/m39.7Personal protective equipment9.8 <td>5.1</td> <td>Suitable extinguishing agents</td> <td></td>	5.1	Suitable extinguishing agents			
and precautions for fire-fighters         Wear protective clothing and self-contained breathing apparatus.           5.4         Hazardous combustion materials         No data available.           6.         Accidental Release Measures         Image: Second precautions, protective output the netty into waterways, drains, soil, and sewers. Use suitable absorbent material.           6.2         Environmental precautions, protective output the netty into waterways, drains, soil, and sewers. Use suitable absorbent material.           6.3         Measures for cleaning/collecting         Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Do not allow to enter any water system.           6.4         Additional information         See Section 16 or information on safe handling. See Section 13 for disposal information.           7.         Handling and Storage         Do not store together with oxidizing and acidic materials as well as heavy-metal compounds.           8.         Exposure Controls / Personal Protection         Do not store together with oxidizing and acidic materials as well as heavy-metal compounds.           8.1         Exposure Limits         Sodium Azide Callog -0.1 ppm, 0.3 mg/m3           9.         Sodium Azide Callog -0.29 mg/m3         Celling -0.29 mg/m3           10.         Norsen only with adequate (local exhaust) ventilation or furm hood.           13.         Personal protective equipment         See Section 15 ore together with oxidizing and acidic materials as we	5.2.	material, its products of combustion	During heating or in case of fire, poisonous gases may be produced.		
6.       Accidental Release Measures         1.       Personal precautions, protective equipment and emergency procedures       Not required         6.2.       Environmental precautions       Prevent entry into waterways, drains, soil, and sewers.Use suitable absorbent material.         6.3.       Measures for cleaning/collecting       Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).Do not allow to enter any water system.         6.4.       Additional information       See Section 7 for information on personal protection equipment. See Section 13 for disposal information.         7.       Handling and Storage       Do not store together with oxidizing and acidic materials as well as heavy-metal including any incompatibilities         7.       Information for safe storage, including any incompatibilities       Do not store together with oxidizing and acidic materials as well as heavy-metal including any incompatibilities         8.       Exposure Controls / Personal Prevetteru         8.       Exposure limits         8.       Califig -0.1 ppm, 0.3 mg/m3         9.       Ceiling -0.3 mg/m3         10.       NIOSH REL         10.       Exposure Controls         10.       Use only with adequate (local exhaust) ventilation or fume hood.         11.       Exposure Controls         12.       Exposure controls         13.       Leging - 0.	5.3.		Wear protective clothing and self-contained breathing apparatus.		
6.1       Personal precautions, protective equipment and emergency procedures       Not required         6.2       Environmental precautions       Prevent entry into waterways, drains, soil, and sewers. Use suitable absorbent material.         6.3       Measures for cleaning/collecting       Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Do not allow to enter any water system.         6.4       Additional information       See Section 7 for information on parsonal protection equipment. See Section 15 for information on personal protection equipment. See Section 15 for information on personal protection equipment. See Section 15 for information on personal protection equipment. See Section 15 for information on personal protection equipment. See Section 15 for information on personal protection equipment. See Section 15 for information.         7.1       Information for safe handling       No special measures required.         7.2       Conditions for safe storage. Do not store together with oxidizing and acidic materials as well as heavy-metal compounds.         8.1       Exposure Controls / Personal Protection         8.1       Exposure Limits       Sodium Azide Cal/OSHA         9.1       Ceiling -0.29 mg/m3         8.2       Exposure controls       Ceiling -0.3 mg/m3         8.3       Personal protective equipment       Lies only with adequate (local exhaust) ventilation or fume hood.         8.4       Exposure controls       Lies only with adequate (local exhaust) ventila	5.4.	Hazardous combustion materials	No data available.		
a equipment and emergency proceduresNot required6.2Environmental precautionsPrevent entry into waterways, drains, soil, and sewers. Use suitable absorbent material.6.3Measures for cleaning/collectingAbsorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Do not allow to enter any water system.6.4Additional informationSee Section 7 for information on safe handling. See Section 13 for disposal information.7Handling and StorageSee Section 7 for information on personal protection equipment. See Section 13 for disposal information.7.1Information for safe handlingNo special measures required.7.2Conditions for safe storage, including any incompatibilitiesDo not store together with oxidizing and acidic materials as well as heavy-metal compounds.8.1Exposure Controls / Personal Pertector8.1Exposure Limits Sodium Azide Cal/OSHACeiling -0.1 ppm, 0.3 mg/m39.2ACGIH TLVCeiling -0.2 smg/m39.3Persoure controlsUse only with adequate (local exhaust) ventilation or fume hood.9.3Personal protective equipment9.4Engineering ControlsSee only with adequate (local exhaust) ventilation or fume hood.9.3Personal protective and hygienciKeep away from foodstuffs, beverage, and feed.9.4Reneral protective and hygienciKeep away from foodstuffs, beverage, and feed.9.4General protective and hygienciKeep away from foodstuffs, beverage, and feed.9.4Seriel protective and hygienciKeep away from foodstuffs, b	6.	Accidental Release Measures			
material.     material.     material.     material.     Measures for cleaning/collecting     Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).Do not allow to enter any water system.     acid binders, universal binders).Do not allow to enter any water system.     See Section 3 for information on pare handling.     For Handling and Storage     for Handling and Storage     for fortamion for safe handling     No special measures required.     for information on safe handling.     for ont store together with oxidizing and acidic materials as well as heavy-metal     forduding any incompatibilities     forduding any incompatibilitis     forduding any incompatibilities	6.1.	equipment and emergency	Not required		
acid binders, universal binders).Do not allow to enter any water system.         acid binders, universal binders).Do not allow to enter any water system.         See Section 7 for information on personal protection equipment. See Section 8 for information on personal protection equipment. See Section 8 for disposal information.         Information for safe handling       No special measures required.         Conditions for safe storage, including any incompatibilities       Do not store together with oxidizing and acidic materials as well as heavy-metal compounds.         Exposure Controls / Personal Protection       Ecling -0.1 ppm, 0.3 mg/m3         Sodium Azide Cal/OSHA Cal/OSHA Exposure limits       Ceiling -0.1 ppm, 0.3 mg/m3         NOSH REL       Ceiling -0.29 mg/m3         REL       Ceiling -0.3 mg/m3         REL       Use only with adequate (local exhaust) ventilation or fume hood.         REL       Versonal protective equipment         Resonal protective equipment       Keep away from foodstuffs, beverages, and feed. Wash hands, face, and exposed forearms/areas after handling. Wash contaminated clothing before reusing. Ensure eyewash stations and safety showers are in close proximity to workstation.	6.2.	Environmental precautions			
6.4. Additional information       See Section 8 for information on personal protection equipment. See Section 13 for disposal information.         7.       Handling and Storage         7.1.       Information for safe handling       No special measures required.         7.2.       Conditions for safe storage, including any incompatibilities       Do not store together with oxidizing and acidic materials as well as heavy-metal compounds.         8.       Exposure Controls / Personal Protection         8.       Exposure Limits         5.       Sodium Azide         6.4.       ACGIH TLV         7.2.       ACGIH TLV         7.3.       Reposure controls / Personal Protection         7.4.       Exposure Controls / Personal Protection         7.5.       Sodium Azide         6.4.       ACGIH TLV         7.4.       Ceiling -0.1 ppm, 0.3 mg/m3         7.5.       REL         7.6.       Ceiling -0.29 mg/m3         7.7.       REL         7.8.       Exposure controls         7.9.       Rel Controls         7.9.       Ling -0.3 mg/m3         7.9.       Rel Controls         7.9.       Rel Controls         7.9.       Ling -0.1 pm/m3         7.9.       Rel Controls	6.3.	Measures for cleaning/collecting	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).Do not allow to enter any water system.		
7.1       Information for safe handling       No special measures required.         7.2       Conditions for safe storage, including any incompatibilities       Do not store together with oxidizing and acidic materials as well as heavy-metal compounds.         8.       Exposure Controls / Personal Protection         8.1       Exposure limits         Sodium Azide Cal/OSHA PEL       Ceiling -0.1 ppm, 0.3 mg/m3 PEL         6.       Cal/OSHA REL         7.1.       NOSH REL         7.2.       Exposure controls         7.3.       Rel         7.4.       Ceiling -0.29 mg/m3         7.5.       Exposure controls         7.6.       Rel         7.7.       Ceiling - 0.3 mg/m3         7.8.       Exposure controls         7.9.       Engineering Controls         7.9.       Use only with adequate (local exhaust) ventilation or fume hood.         7.9.       Fersonal protective equipment         7.9.       General protective and hygienic Wash hands, face, and exposed forearms/areas after handling. Wash contaminated clothing before reusing. Ensure eyewash stations and safety showers are in close proximity to workstation.	6.4.	Additional information	See Section 8 for information on personal protection equipment.		
7.2.       Conditions for safe storage, including any incompatibilities       Do not store together with oxidizing and acidic materials as well as heavy-metal compounds.         8.       Exposure Controls / Personal Pre-tom         8.1.       Exposure limits         8.       Exposure limits         9.       Sodium Azide Cal/OSH PEL         0.       Ceiling -0.1 ppm, 0.3 mg/m3         0.       Ceiling -0.29 mg/m3         0.       Ceiling -0.3 mg/m3         0.       REL         0.       Ceiling -0.3 mg/m3         0.       Ceiling -0.3 mg/m3         0.       REL         0.       Ceiling -0.3 mg/m3         0.       Sogium Azide Controls         0.       Sogium -0.1 ppm, 0.3 mg/m3         0.       NIOSH REL       Ceiling -0.3 mg/m3         0.       Reproser controls       Ceiling -0.3 mg/m3         0.       Personal protective and bygienci       Use only with adequate (local exhaust) ventilation or fume hood.         0.       Personal protective equipment       Seep away from foodstuffs, beverages, and feed.         Wash hands, face, and exposed forearms/areas after handling. Wash hands, face, and exposed fore	7.	Handling and Storage			
including any incompatibilities       compounds.         including any including any including and participation.       compounds.         including any including any including any including and participation.       compounds.         including any including any including any	7.1.	Information for safe handling	No special measures required.		
8.1.       Exposure limits         Sodium Azide Cal/OSHA PEL       Ceiling -0.1 ppm, 0.3 mg/m3         ACGIH TLV       Ceiling -0.29 mg/m3         NIOSH REL       Ceiling -0.3 mg/m3         Stposure controls       Ceiling -0.3 mg/m3         Exposure controls       Use only with adequate (local exhaust) ventilation or fume hood.         8.3.       Personal protective equipment         Seneral protective and hygienic measures       Keep away from foodstuffs, beverages, and feed. Wash hands, face, and exposed forearms/areas after handling. Wash contaminated clothing before reusing. Ensure versons after shandling.	7.2.	5			
Sodium Azide       ceiling -0.1 ppm, 0.3 mg/m3         ACGIH       ceiling -0.29 mg/m3         Image: NIOSH       ceiling -0.29 mg/m3         NIOSH       ceiling -0.3 mg/m3         Image: NIOSH       ceiling -0.3 mg/m3	8.	Exposure Controls / Personal Protection			
Cal/OSHA       PEL       Ceiling -0.1 ppm, 0.3 mg/m3         ACGIH       TLV       Ceiling -0.29 mg/m3         NIOSH       REL       Ceiling - 0.3 mg/m3         8.2       Exposure controls       Ceiling - 0.3 mg/m3         Engineering Controls       Use only with adequate (local exhaust) ventilation or fume hood.         8.3       Personal protective equipment         General protective and hygienic       Keep away from foodstuffs, beverages, and feed. Wash hands, face, and exposed forearms/areas after handling. Wash contaminated clothing before reusing. Ensure eyewash stations and safety showers are in close proximity to workstation.	8.1.	Exposure limits			
TLV       Ceiling - 0.29 mg/m3         NIOSH REL       Ceiling - 0.3 mg/m3         8.2.       Exposure controls         Engineering Controls       Use only with adequate (local exhaust) ventilation or fume hood.         8.3.       Personal protective equipment         General protective and hygienic measures       Keep away from foodstuffs, beverages, and feed. Wash hands, face, and exposed forearms/areas after handling. Wash contaminated clothing before reusing. Ensure eyewash stations and safety showers are in close proximity to workstation.		Cal/OSHA	Ceiling -0.1 ppm, 0.3 mg/m3		
REL       Ceiling – 0.3 mg/m3         8.2.       Exposure controls         Engineering Controls       Use only with adequate (local exhaust) ventilation or fume hood.         8.3.       Personal protective equipment         General protective and hygienic measures       Keep away from foodstuffs, beverages, and feed. Wash hands, face, and exposed forearms/areas after handling. Wash contaminated clothing before reusing. Ensure eyewash stations and safety showers are in close proximity to workstation.			Ceiling –0.29 mg/m3		
Engineering Controls       Use only with adequate (local exhaust) ventilation or fume hood.         8.3. Personal protective equipment       Keep away from foodstuffs, beverages, and feed.         General protective and hygienic measures       Keep away from foodstuffs, beverages, and feed.         Wash hands, face, and exposed forearms/areas after handling.       Wash contaminated clothing before reusing.         Ensure eyewash stations and safety showers are in close proximity to workstation.			Ceiling – 0.3 mg/m3		
<ul> <li>8.3. Personal protective equipment</li> <li>General protective and hygienic measures</li> <li>Keep away from foodstuffs, beverages, and feed.</li> <li>Wash hands, face, and exposed forearms/areas after handling.</li> <li>Wash contaminated clothing before reusing.</li> <li>Ensure eyewash stations and safety showers are in close proximity to workstation.</li> </ul>	8.2.	Exposure controls			
General protective and hygienic measures Keep away from foodstuffs, beverages, and feed. Wash hands, face, and exposed forearms/areas after handling. Wash contaminated clothing before reusing. Ensure eyewash stations and safety showers are in close proximity to workstation.		Engineering Controls	Use only with adequate (local exhaust) ventilation or fume hood.		
General protective and hygienic measuresWash hands, face, and exposed forearms/areas after handling. Wash contaminated clothing before reusing. Ensure eyewash stations and safety showers are in close proximity to workstation.	8.3.	Personal protective equipment			
Breathing equipment No required.			Wash hands, face, and exposed forearms/areas after handling. Wash contaminated clothing before reusing.		
		Breathing equipment	No required.		

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Hand protection	Chemical resistant gloves.		
Eye protection	Safety goggles.		
Body protection	Protective work clothing (lab coat).		
9. Physical and Chemical Propertie			
Appearance Odor Odor threshold pH Melting point/freezing point Boiling point Flash point Evaporation rate Flammability Upper explosion limit Lower explosion limit Vapor pressure Vapor density Relative density Solubility Partition coefficient Auto-ignition temperature Decomposition temperature Viscosity Explosive Properties Oxidizing Properties	Liquid, Colored, clear Odorless Not available. 7.0-7.2 No Data Available No Data Available		
10. Stability and Reactivity			
10.1. Reactivity	No data available		
10.2. Chemical stability	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.		
10.3. Possibility of hazardous reactions	No data available		
10.4. Conditions to avoid	No data available		
10.5. Incompatible materials	Acidic materials and metals.		
10.6. Hazardous decomposition products	Nitrogen Oxides (NOx)		
10.7. Additional information	Sodium azide is present in this product. Contact with acidic solutions and metal compounds over time may form potentially explosive metal azides. Should any of this material be introduced into a sanitary sewer system, flush with copious amounts of water.		
11. Toxicological Information			
11.1. Information on toxicological effects			
Routes of Entry	Ingestion, inhalation, skin and eye contact.		
Acute Toxicity	Oral LD50 (Sodium Azide) 27 mg/kg (rat)		
Skin Corrosion/Irritation	Contact may cause skin irritation		
Serious eye damage/irritation	Contact may cause eye irritation		

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Respiratory or skin sensitization		No data available			
Germ cell mutagenicity		No data available			
Ca	arcinogenicity	No data available			
Re	eproductive toxicity	No data available			
ST	rOT-single exposure	No data available			
ST	OT-repeated exposure	Kidneys and central nervous system			
As	spiration hazard	No data available			
12. Ec	cological Information				
En	nvironmental Toxicity	No Data Available			
Ac	quatic Toxicity	No Data Available			
Pe	ersistence and degradability	No Data Available			
Bi	ioaccumulative potential	No Data Available			
M	lobility in soil	Water soluble			
Re	esults of PBT and vPvT assessment	No Data Available			
13. Di	isposal Considerations				
Di	isposal methods	Minimize waste as much as possible. Disposal must be made according to state and federal regulations.			
14. Tra	ransport Information				
D	OT (Ground)	Not regulated			
IM	/IDG	Not regulated			
IA	TA	Not regulated			
A	DR	Not regulated			
A	DN	Not regulated			
RI	ID	Not regulated			
15. Re	egulatory Information				
15.1. Pr	roduct related hazard information	The product has been classified and marked in accordance with regulations on			

The product has been classified and marked in accordance with regulations on hazardous materials.

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#### 16. Other Information

16.1. Revision Date: June 3rd, 2014

This SDS was created in good faith based on our current knowledge at the time of creation and revision, but no warranty is made on the information, hazards, and toxicity data described. Prior to use, be sure to examine the latest information, rules, laws, and regulations of your country or region concerning hazards and harmful effects as well as regarding equipment to be used, and accord the highest priority to them.

The precautions described in this document assume normal handling of the product. When handling the product in an unconventional manner, be sure to take appropriate safety measures according the situation and take sufficient precautions.

All chemical products should be handled assuming the presence of "unknown hazards and harmful effects" and with the knowledge that such hazards will vary greatly depending on the usage environment, handling method, and conditions and period of storage. All handling of the product, including use, unpacking, storage, and disposal, should be performed only by specialists with professional knowledge and experience or under close supervision of such qualified specialists. It is the sole responsibility of the user to ensure and provide proper safe use conditions.

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