

Safety Data Sheet

Section 1: Product & Company Identification

Product Name:	Protease Inhibitor Cocktail VII (for His Tag Sequences) in DMSO
Product #:	P-1546
Synonyms:	-
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego CA 92131 Tele# + 858-452-9925
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

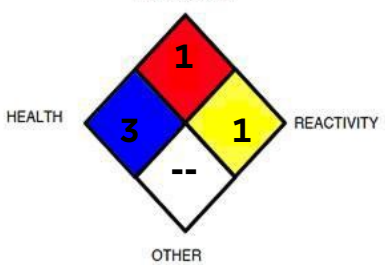
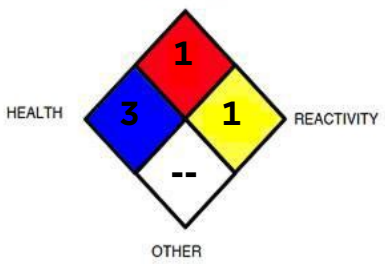
Section 2: Composition / Information on Ingredients

Component	CAS#	EC #	% Composition
AEBSF HCl	30827-99-7	-	100 mM
Bestatin HCl	65391-42-6	-	5 mM
E-64	66701-25-5	-	1.5 mM
Pepstatin A	26305-03-3	-	2 mM
Phosphoramidon disodium	119942-99-3	-	200 µm
DMSO	67-68-5	-	-

Section 3: Hazards Identification

Symbols



HMIS Classification	<p>FLAMMABILITY</p>  <p>HEALTH 3 1 REACTIVITY</p> <p>OTHER</p>
NFPA Classification	<p>FLAMMABILITY</p>  <p>HEALTH 3 1 REACTIVITY</p> <p>OTHER</p>

Section 4: First Aid Measures

General Overview:	Immediate medical attention is required.
Inhalation:	Remove to fresh air Call a physician or poison control center immediately If not breathing, give artificial respiration If breathing is difficult, give oxygen
Skin:	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eyes:	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
Ingestion:	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5: Fire Fighting Measures

Flammability of the product:	No data available
Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous thermal	Hydrogen sulfide, Hydrogen fluoride, Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride

(de)composition products:	
Special Fire Fighting Procedures:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Flash Point:	No data available

Section 6: Accidental Release Measures





Personal Precautions:	Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes, or clothing. Keep people away from and upwind of spill/leak.
Environmental Precautions:	Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.
Methods for Clean-up:	Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid creating dust. Dam up. After cleaning, flush away traces with water.

SECTION 7: Handling & Storage

Storage:	Store at -20°C. Hygroscopic. Following reconstitution, aliquot and freeze.
Handling:	Use personal protective equipment as required. Avoid contact with skin, eyes, or clothing. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Handle in accordance with good industrial hygiene and safety practice. Corrosive hazard. Wear protective gloves/clothing and eye/face protection.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:	
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	 <p>If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.</p>
Skin and Body:	  <p>Wear protective gloves and protective clothing.</p>
Eyes:	 <p>Tight sealing safety goggles. Face protection shield.</p>
Ventilation/Engineering Measures:	Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment.
Hygiene:	When using do not eat, drink, or smoke. Wash contaminated clothing before reuse. Keep away from food, drink, and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes, or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.
Other:	N/A

SECTION 9: Physical and Chemical Properties

Appearance & Odor:	White lyophilized solid
Formula	N/A
Molecular Wt.	N/A
Melting Pt.	No data available
Boiling Pt.	No data available
Density:	No data available
Vapor Pressure:	No data available
Evaporation Rate:	No data available
Vapor Density:	No data available
Solubility:	DMSO, Water
Flash Point:	No data available
Autoignition Temp:	No data available

SECTION 10: Stability and Reactivity

Stability:	Stable under proper storage conditions.
Hazardous decomposition products:	Hydrogen chloride gas, Nitrogen oxides, Carbon monoxide, Carbon dioxide, Sulfur oxides, Hydrogen fluoride gas
Materials to Avoid:	Strong oxidizing agents and strong bases
Conditions to avoid:	Fire, excessive heat

SECTION 11: Toxicological Information

RTECS#:	N/A
ACUTE Toxicity:	Causes severe irritation and or burns. Ingestion causes severe swelling, severe damage to tissue and possible perforation.
CHRONIC Toxicity:	Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects.
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	<p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.</p> <p>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by AGGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.</p>

	<p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>
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SECTION 12: Ecological Information

Ecotoxicity:	May cause long lasting harmful effects to aquatic life.
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available
General Notes:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 13: Disposal Considerations

Residue Waste or Unused product:	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Waste codes should be assigned by the user based on the application for which the product was used.
Contaminated Packaging:	Do not reuse container. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transportation Information

UN ID#:	AEBSF HCl: 3261
ADR / RID (LAND):	AEBSF HCL: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S., Class 8 Packing II
DOT regulations:	AEBSF HCL: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S., 4-(2-Aminoethyl)benzenesulfonyl fluoride Class 8 Packing II
IMDG/IMO (SEA):	AEBSF HCL: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S., Class 8 Packing II
IATA/DGR (AIR):	AEBSF HCL: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S., Class 8 Packing II
Special Provisions:	N/A

SECTION 15: Regulatory Information

Health Phrases:	<p>H302 Harmful if swallowed</p> <p>H314 Causes severe skin burns and damage</p> <p>H315 Causes skin irritation</p> <p>H318 Causes serious eye damage</p>
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	H319 Causes serious eye irritation H332 Harmful if inhaled H335 May cause respiratory irritation
Risk Phrases:	N/A
Safety Phrases:	N/A
EU Regulations:	N/A
US Regulations:	TSCA: No products listed California Proposition 65: No products listed Pennsylvania Right To Know: Pepstatin A (CAS 26305-03-3)
U.S. Federal Regulations:	SARA 302/304/311/312 extremely hazardous substances: No products were found SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found. SARA 313 toxic chemicals notification and release reporting: No products were found. Clean Water Act (CWA) 307: No products listed Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found. OSHA: No products were found
WHMIS (Canada):	N/A

SECTION 16: Other Information

LIABILITY STATEMENT: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.