

Safety Data Sheet (SDS) for Recombinant RAVV glycoprotein in PBS buffer supplemented with arginine, glutamic acid and glycerol

1 - Identification of the substance / preparation and of the company

Product name	Recombinant RAVV glycoprotein
Supplier identification	Integrated Biotherapeutics, LLC 4 Research Court, Suite 300 Rockville, MD 20850 USA Tel: 1-240-778-6515 Fax: 1-301-515-0324

2 – Hazards identification

Classification of Product There is no hazard profile available for **Recombinant Glycoprotein**. Please use general precautions when handling this product.

OSHA Hazards

None Identified

Target Organs

None Identified

Hazard Statements Causes
skin irritation Causes eye
irritation

HMIS Classification

Health Hazard: 0

Flammability: 1

Physical Hazards: 0

NFPA Rating

Health Hazard: 0

Fire: 1

Reactivity Hazard: 0

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if adsorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation
Ingestion	May be harmful if swallowed.

3 – Composition/information on hazardous ingredients

Component	Chemical name	% Conc.	CAS#	EC#
Protein	Recombinant glycoprotein	0.5-5.0 mg/mL	None	None
L-Arginine	L-Arginine	50 mM	74-79-3	200-811-1
L-Glutamic Acid	L-Glutamic Acid	50 mM	56-86-0	200-293-7
Sodium chloride	Sodium chloride	200 mM	7647-14-5	231-598-3
Glycerol	Glycerol	10% v/v	56-81-5	200-289-5

4 - First aid measures

Eye contact	In case of eye contact, flush with copious amounts of water for at least 15 minutes. Seek medical attention if irritation occurs.
Skin contact	In case of skin contact, flush with copious amounts of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention if necessary.
Inhalation	If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if necessary.
Ingestion	If swallowed, wash out mouth with water. Consult a physician.

5 - Fire fighting measures

Suitable extinguishing media	Suitable: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Special risks	Hazardous decomposition products formed under fire conditions (carbon oxides).
Special Protective Equipment	Wear self-contained breathing apparatus for firefighting if necessary.

6 - Accidental release measures

Personal precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
Environmental precautions	Do not let product enter drains.
Disposal	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7 - Handling and storage

Handling	Avoid inhalation. Avoid contact with skin and eyes.
Storage	Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.
Special requirements	

8 - Exposure controls / personal protection

Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.
Hand protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye protection	Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Other precautions	Wash contaminated clothing before reuse. Wash thoroughly after handling.

9 - Physical and chemical properties

Form	Liquid
Color	Colorless

10 - Stability and reactivity

Stability	Stable under normal storage and handling conditions.
Hazardous decomposition products	Under fire conditions – carbon oxides. No data available on other decomposition products.

11 - Toxicological information

Skin contact	May cause skin irritation.
Eye contact	May cause eye irritation.
Inhalation	May cause irritation
Ingestion	Harmful if swallowed.

12 - Ecological information

Ecotoxicological effects	No data available
Other	

13 - Disposal considerations

SUBSTANCE DISPOSAL: Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

14 - Transport information

ADR/RID	Not classed as dangerous in the meaning of transport regulations
IMDG	Not dangerous goods
IATA	Not dangerous goods

15 - Regulatory information

OSHA Hazards

Target Organ Effect

United States Regulatory Information

Sara Listed: No

16 - Other information

Key/Legend ADR/RID = European Agreement of Dangerous Goods by Road/Rail; CAS# = Chemical Abstract Service number; EC# = EC number (EINECS or ELINCS); EEC = European Economic Community; EU = European Union; IATA = International Air Transport Association
NA = Non-applicable

SDS revised October 12, 2020

Disclaimer: The information contained in this Safety Data Sheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions.

Integrated Biotherapeutics, Inc shall not be held responsible for any damage resulting from the use of the above product or the information contained in this safety data sheet.