

Section 1. Product and Manufacturer Identification

Product Name: ANPRA/aequorin Expression Vector

Catalog Number: 60641

CAS number: Not available.

Recommended Usage: This product is intended for use in a research setting for the growth of cell culture.

This product is sold only for research use by qualified laboratory personnel, and is not to be used as a drug, medical device, food additive, cosmetic, nor household chemical. It is not to be used in diagnostic, therapeutic, consumer, and agricultural applications.

Manufacturer Information: BPS Bioscience, Inc.
6405 Mira Mesa Blvd., Suite 100
San Diego, CA 92121 USA.
Tel: 1-858-202-1401
www.bpsbioscience.com

For a complete list of components shipped with a product, please review the product datasheet, which is available on our website at www.bpsbioscience.com. A safety datasheet for each component is available upon request.

Section 2. Hazard(s) Identification

Hazard Classification

Not a hazardous substance or mixture according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

Hazard Pictograms: n/a

Health Hazards:

Respiratory sensitization	0
Skin sensitization	0
Reproductive Toxicity	0

Physical Hazards: Not hazardous

Environmental Hazards: Not hazardous

Hazard Statement(s): Not hazardous

Precautionary statements

Prevention: Not Applicable

Response: Not Applicable

Storage: Not Applicable

Disposal: Not Applicable

Other Hazards: Not Applicable

HMIS

Health	0
Flammability	0
Reactivity	0

Section 3. Composition and Information on Ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. No viruses or bacteria are known to be present; however, appropriate precautions for biological materials should be used.

The physical properties of this product have not been investigated thoroughly. We recommend handling all chemicals according to good lab practices, with proper personal protective equipment, proper engineering controls, and within the parameters of the purchaser's chemical hygiene plan.

Section 4. First Aid Measures

Description of First Aid measures

- Skin contact:** Wash skin with soap and water. Immediate medical attention is not required.
- Eye contact:** Rinse immediately with water for several minutes, including under the eyelids. Remove contact lenses, if present and easy to do. Rinse for at least 15 minutes.
- Ingestion:** Rinse mouth with water and afterwards drink plenty of water. Do not give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove source of exposure or move person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell or are concerned.
- Notes to Physician:** Treat symptomatically.

Most important symptoms and effects, both acute and delayed:

No known significant effects or critical hazards.

Indication of any immediate medical attention and special treatment needed:

No data available.

Section 5. Fire Fighting Measures

Conditions of flammability	This product is not flammable.
Suitable extinguishing media	Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical. Use caution when applying carbon dioxide in confined spaces. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	No data available.
Special hazards arising from the substance or mixture	None known.
Special protective equipment for firefighters	Standard procedure for chemical fires.

Section 6. Accidental Release Measures

Personal precautions and protective equipment	Ensure adequate ventilation, and avoid breathing vapors, mist or gas. Avoid dust/aerosol formation. Isolate hazard area and keep unauthorized personnel away. Remove all sources of ignition. Always wear recommended Personal Protective Equipment. See section 8 for more information.
Emergency procedures	Evacuate personnel to safe areas. Wear Personal Protective Equipment and keep unprotected individuals away.
Environmental precautions	Stop spill/release if it can be done safely. Do not allow product to reach ground water, water course or sewage system.
Methods and material for containment and cleaning up	Keep in suitable, closed containers for disposal.
Reference to other sections	See section 8 for more information.

Section 7. Handling and Storage

Precautions for Safe Handling	Use personal protective equipment as required. Do not eat, drink, or smoke in working areas. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Wash hands thoroughly after leaving the laboratory.
Precautions for protection against explosions and fires	Keep ignition sources away - Do not smoke. The product is not flammable.
Precautions for minimizing the release of the chemical into the environment	No special environmental precautions are needed. Avoid discharge into drains and waterways whenever possible.
Conditions for safe storage, including any incompatibilities	Keep container tightly sealed in a dry, cool and well-ventilated place. Recommended storage temperature: As described in technical data sheet

Section 8. Exposure Controls, Personal Protection

Control Parameters

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
No Chemical Applicable	-	-	-	-

The lists that were valid during the creation of this document were used as basis.

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
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Exposure Controls

Personal Protective Equipment (PPE)

Respiratory protection	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standard, such as NIOSH (US) or CEN (EU).
Hand protection	Handle with suitable impervious 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	Tight sealing safety goggles
Body protection	Wear suitable protective clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No special environmental precautions required. Stop spill/release if it can be done safely. Do not allow product to reach ground water, water course or sewage system.

Section 9. Physical and Chemical Properties

Physical and chemical properties

Physical state	Frozen liquid
Odor	No data available
Odor threshold	No data available
pH	6-8
Molecular weight	No data available
Melting Point / melting range	-10°C to 2°C
Boiling point / boiling range	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapor Pressure	No data available
Vapor density	No data available

Relative density	No data available
Specific gravity	No data available
Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Other information	No data available

Section 10. Stability and Reactivity

Chemical Stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	No data available
Incompatible materials	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	No data available
Polymerization	Hazardous polymerization does not occur under conditions of normal use.

Section 11. Toxicological Information

Information on toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LD50	Concentration / %
No Chemical Applicable	-	-	-	-

Principle Routes of Exposure

Acute toxicity	No data available
Skin corrosion / irritation	No data available
Serious eye damage / irritation	No data available
Respiratory or skin sensitization	No data available
Specific target organ toxicity (STOT) – single exposure	No data available
Specific target organ toxicity (STOT) – repeated exposure	No data available
Carcinogenicity	No data available
Germ cell mutagenicity	No data available
Reproductive toxicity	No data available
Aspiration hazard	No data available
Symptoms of exposure	No data available
Additional information	No data available

Section 12. Ecological Information

Ecotoxicity	The ecological impact for this product has not been investigated thoroughly. We recommend handling all chemicals with caution.
Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Results of PBT and vPvB assessment	No information available
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid disposal of these reagents down the drain.

Section 13. Disposal Considerations

Disposal of Product

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Section 14. Transport Information

IATA / ADR / DOT-US / IMDG

Classified as dangerous in the meaning of transport regulation

UN Number	Not Regulated
UN proper shipping name	Not Applicable
Transport hazard class(es)	Not Applicable
Packing group	Not Applicable
Special Precautions for user	Not Applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not Applicable

Section 15. Regulatory Information

Chemical Name	CAS #	US TSCA
No Applicable Chemical	-	-

U.S. Federal Regulations

SARA 302 Components

Not applicable

SARA 313 Components

Not applicable

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs)

Product does not contain HAPs.

CWA (Clean Water Act)

Not applicable

OSHA - Occupational Safety and Health Administration (Hazardous Materials)

Not applicable

CERCLA

Not Applicable

U.S. Department of Transportation

Reportable Quantity (RQ): Not applicable

DOT Marine Pollutant: Not applicable

DOT Severe Marine Pollutant: Not applicable

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

U.S. State Regulations

California Prop 65

Product does not contain chemicals listed under Proposition 65.

US State Right To Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
No applicable chemicals	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Not applicable

WHMIS Hazard Class

Not Applicable.

Section 16. Other Information

Revision date: December 21, 2021

Contact information:

Phone: 1-858-202-1401

Email: support@bpsbioscience.com

This product is for research use only and is not intended for human or animal diagnostic or therapeutic uses. The recipient is responsible for ensuring that, where applicable, existing laws and guidelines are observed. All materials and mixtures may present unknown hazards and should be used with caution.

BPS Bioscience provides this information in good faith and is based on our present knowledge. This information shall not be taken as being all inclusive and is to be used only as a guide. This SDS does not constitute a warranty of any kind.

End of Safety Data Sheet