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## Recombinant Human Kallikrein-2 (KLK-2) Protein

**Catalog Number:** 230-01224

### Safety Data Sheet

Last Revised: 11/12/2024

## Identification

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### Usage

This product is furnished for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic use.

### Supplier Identification

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<b>Emergency Phone</b>	1-888-494-8555
<b>Fax</b>	770-206-2393
<b>Website</b>	<a href="http://www.RayBiotech.com">www.RayBiotech.com</a>
<b>Email</b>	<a href="mailto:info@raybiotech.com">info@raybiotech.com</a>

## Hazards Identification

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### Hazardous Ingredients

There are no hazardous components in this product.

### OSHA/HCS Status

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### GHS Label Elements

<b>Hazard Pictograms</b>	Not applicable.
<b>Hazard Statements</b>	Not applicable.

<b>Response</b>	<ul style="list-style-type: none"> <li>• IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.</li> <li>• EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>• SKIN CONTACT: Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>• INHALATION: Move to an outside area and breath fresh air. Clear the nose by blowing.</li> </ul>
<b>Storage</b>	Not applicable.
<b>Disposal</b>	Not applicable.

## Hazards Not Otherwise Classified

None known.

## Composition/Information on Ingredients

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There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## First-Aid Measures

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### Description of Necessary First Aid Measures

<b>Eye Contact</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
<b>Skin Contact</b>	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing and clean shoes before reuse.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## **Ingestion**

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## **Over-Exposure Signs/Symptoms**

No specific data.

## **Notes to Physician**

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## **Specific Treatments**

No specific treatment.

## **Protection of First-Aiders**

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

## **Fire Fighting Measures**

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**Extinguishing Media** Use an extinguishing agent suitable for the surrounding fire, such as water spray, carbon dioxide, dry chemical powder or appropriate foam. Prevent contact with skin and eyes.

**Chemical Hazards from Fire** In a fire or if heated, a pressure increase will occur and the component containers may burst.

## **Accidental Release Measures**

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### **Personal Precautions, Protective Equipment and Emergency Procedures**

**For Non-Emergency Personnel** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

<b>For Emergency Responders</b>	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For Non-Emergency Personnel" above.
<b>Environmental Precautions</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<b>Protective Equipment</b>	Wear respirator, chemical safety goggles, rubber boots and rubber gloves.

## Methods and Materials for Containment and Cleaning Up

<b>Small Spill</b>	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
<b>Large Spill</b>	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Storage and Handling

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<b>Storage</b>	<ul style="list-style-type: none"> <li>• Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</li> <li>• Upon arrival, the liquid protein may be stored for 2 weeks at 4°C.</li> <li>• For long term storage, it is recommended to store at -20°C or -80°C in appropriate aliquots.</li> <li>• Generally, the shelf life is up to 6 months from the date of receipt at -20°C or -80°C under sterile conditions.</li> </ul>
<b>Handling</b>	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

## Exposure Controls/Personal Protection

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### Permissible Exposure Limits (PELs)

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate Engineering Controls

Showers, eyewash stations, and ventilation systems.

## Protective Equipment

Wear suitable protective clothing, including gloves, safety glasses, dust mask, and a laboratory coat.

## Special Precautions

Not for human, drug, or household use.

## Physical and Chemical Properties

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<b>Appearance</b>	Clear, colorless
<b>Odor</b>	Odorless
<b>Physical State</b>	Liquid
<b>pH</b>	N/A
<b>Boiling Point</b>	N/A
<b>Melting Point</b>	N/A
<b>Freezing Point</b>	N/A
<b>Vapor Pressure</b>	N/A
<b>Vapor Density</b>	N/A
<b>Specific Gravity</b>	N/A
<b>Evaporation Rate</b>	N/A
<b>Solubility in Water</b>	N/A
<b>Odor Threshold</b>	N/A
<b>Coefficient of Water/Oil Distribution</b>	N/A

## Stability and Reactivity

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<b>Chemical Stability</b>	Stable under normal handling procedures.
<b>Hazardous Reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.

## Toxicological Information

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### Acute Toxicity

This product does not contain hazardous components.

<b>Carcinogenicity</b>	Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
<b>Sensitization</b>	Not available.
<b>Mutagenicity</b>	Not available.
<b>Reproductive Toxicity</b>	Not available.

<b>Specific Target Organ Toxicity (Single Exposure)</b>	Not available.
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	Not available.
<b>Aspiration Hazard</b>	Not available.
<b>Likely Routes of Exposure</b>	Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential Acute Health Effects

<b>Eye Contact</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	No known significant effects or critical hazards.
<b>Ingestion</b>	No known significant effects or critical hazards.
<b>Skin Contact</b>	No known significant effects or critical hazards.

### Ecological Information

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<b>Ecotoxicity</b>	No data available.
<b>Persistence and Degradability</b>	No data available.
<b>Bioaccumulation/Accumulation</b>	No data available.
<b>Mobility in Environmental Media</b>	No data available.
<b>Other Hazardous Effects</b>	May be harmful to the environment, particularly aquatic organisms.

### Disposal Considerations

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<b>Disposal Methods</b>	Disposal should be in accordance with applicable national, state, and local laws and regulations. Local regulations may be more stringent than national or state requirements. Verify local and state regulations before discharging into public sewers or landfills. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.
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### Transport Information

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<b>DOT</b>	Not dangerous goods.
<b>IATA</b>	Not dangerous goods.
<b>ADR</b>	Not dangerous goods.

### Regulatory Information

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<b>United States (TSCA)</b>	All ingredients are on the inventory or exempt from listing.
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<b>Canada (DSL / NDSL)</b>	All ingredients are on the inventory or exempt from listing.
<b>Europe</b>	In accordance with Regulation (EC) No 1272/2008 - classification, labelling and packaging of substances and mixtures (CLP).
<b>SARA 302 Components</b>	No known hazards.
<b>SARA 313 Components</b>	No known hazards.
<b>SARA 311/312 Hazards</b>	No known hazards.
<b>California Proposition 65 Components</b>	This product does not contain any Proposition 65 chemicals.
<b>Other Information</b>	

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**Disclaimer**                      The above information was obtained from sources available at the time of revision and believed to be accurate and reliable. The information included is not intended to be all inclusive and should only be used as a guide. RayBiotech shall not be held liable for any damage resulting from use, handling, or contact with the above product.