

# Safety Data Sheet (SDS)

Klenow Fragment (3' → 5' exo-) | EV-MOL-004 | GHS/OSHA HazCom 2012 Compliant

## Section 1: Identification

<b>Product Name</b>	Klenow Fragment (3' → 5' exo-)
<b>Catalog Number</b>	EV-MOL-004
<b>Manufacturer</b>	Enzovera Life Sciences LLC
<b>Address</b>	2600 Hilltop Drive B, C300, Richmond, CA 94806, USA
<b>Intended Use</b>	For research use only. Not for human or veterinary diagnostic or therapeutic use.
<b>Emergency Contact</b>	Refer to local poison control center or emergency services

## Section 2: Hazard Identification

**GHS Classification:** Not classified as hazardous under GHS/OSHA HazCom 2012.

**Signal Word:** None

**Hazard Statements:** No GHS hazard statements apply.

**Precautionary Statements:**

- Avoid contact with eyes, skin, and clothing.
- Wash hands thoroughly after handling.
- Keep out of reach of children.
- Wear appropriate personal protective equipment (PPE) when handling.

## Section 3: Composition / Information on Ingredients

Component	CAS Number	Concentration	Classification
Klenow Fragment exo- (recombinant protein)	N/A — biological	5 U/μL (protein)	Not classified
Glycerol	56-81-5	~50% (v/v)	Not classified
Tris-HCl	77-86-1	10 mM	Not classified
KCl	7447-40-7	50 mM	Not classified
DTT (Dithiothreitol)	3483-12-3	1 mM	Irritant (skin/eye, low conc.)
EDTA	60-00-4	0.1 mM	Not classified at this concentration

## Section 4: First Aid Measures

**Skin Contact:** Wash with soap and water for at least 15 minutes. Remove contaminated clothing. Seek medical attention if irritation develops.

**Eye Contact:** Flush eyes with water for at least 15 minutes, holding eyelids open. Seek medical attention if irritation persists.

**Inhalation:** Move to fresh air. Seek medical attention if symptoms develop.

**Ingestion:** Do NOT induce vomiting. Rinse mouth with water. Seek medical attention immediately.

## Section 5: Fire-Fighting Measures

**Flash Point:** Not applicable (aqueous/glycerol solution).

**Extinguishing Media:** Use media appropriate for surrounding fire.

**Special Hazards:** Glycerol component may combust at high temperatures; CO and CO<sub>2</sub> may form.

## Section 6: Accidental Release Measures

Wear PPE (gloves, lab coat, eye protection).

Contain spill with absorbent material (paper towels, vermiculite).

Collect and place in appropriate waste container.

Clean area with water; decontaminate surfaces if working with biological material.

Dispose according to local, state, and federal regulations.

## Section 7: Handling and Storage

**Handling:** Use in a laboratory setting by trained personnel. Avoid repeated freeze-thaw cycles; aliquot upon receipt.

**Storage:** Store at -20°C. 24 months from date of manufacture when stored correctly.

**Incompatibilities:** Strong oxidizers, strong acids/bases.

## Section 8: Exposure Controls / Personal Protection

**Engineering Controls:** Use in a well-ventilated laboratory. Fume hood recommended for large-scale handling.

**PPE:** Nitrile gloves (disposable); safety glasses or goggles; standard lab coat; no respiratory protection required under normal laboratory use conditions.

## Section 9: Physical and Chemical Properties

**Appearance:** Clear, colorless to faint yellow solution | **Odor:** None | **pH:** per lot CoA | **Solubility:** Fully miscible in water | **MW (enzyme):** ~68 kDa | **Flash Point:** Not applicable

## Section 10: Stability and Reactivity

**Stability:** Stable at -20°C when stored correctly.

**Conditions to Avoid:** Temperatures above 4°C for extended periods; repeated freeze-thaw cycles.

**Hazardous Decomposition Products:** None under normal conditions.

## Section 11: Toxicological Information

**Acute Toxicity:** No data available for this formulation. Enzyme proteins are generally of low acute toxicity. DTT (where present) is at trace concentration (low-risk).

**Carcinogenicity:** No components are listed by IARC, NTP, or OSHA as carcinogens.

**Mutagenicity:** No data available.

## Section 12: Ecological Information

No ecotoxicological data are available for this product. Avoid release into drains or waterways. Dispose of in accordance with applicable regulations.

## Section 13: Disposal Considerations

Dispose of in accordance with local, state, and federal regulations. As a biological research reagent, treat as biological waste per institutional biosafety guidelines. Inactivation by autoclaving is recommended before disposal.

## Section 14: Transport Information

**UN Number:** Not regulated (non-hazardous biological reagent).

**DOT / IATA / IMDG:** Not classified as a dangerous good.

**Special Precautions:** Ship on dry ice. Keep frozen during transport.

## Section 15: Regulatory Information

**TSCA:** Biological mixture for research use. Glycerol (CAS 56-81-5) is on the TSCA inventory.

**SARA Title III:** No Section 302 or Section 313 listed components.

**California Prop 65:** No listed components at concentrations requiring a warning.

## Section 16: Other Information

**SDS Number:** SDS-EV-MOL-004

**Revision:** 1.0 | **Issue Date:** April 2026

**Prepared by:** Enzoverta Life Sciences LLC, Quality Assurance

*The information provided in this SDS is based on the best available data and is believed to be accurate. It is not intended to be all-inclusive. Users should conduct their own assessment of the suitability of this product for their specific application.*

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