# Recombinant Mouse TRAIL / TNF-Related Apoptosis-Inducing Ligand, Animal Free & Carrier Free

Cat #: C-CYP214

Size: 5μg, 20μg, 100μg, 500μg, 1mg

Shipping: Blue Ice

## Product Overview

TRAIL acts as a cytotoxic protein, through activating rapid apoptosis in tumor cells (not in normal cells). TRAIL conducts apoptosis through binding to DR4 and DR5, which are two death-signaling receptors belonging to the TNFR superfamily of transmembrane proteins. These receptor contain a cytoplasmic " death domain", which can initiate the cell's apoptotic process.

## Product Information

**Source:** *Escherichia Coli*.

**Purity:** >98% as determined by SDS-PAGE. Ni-NTA chromatography.

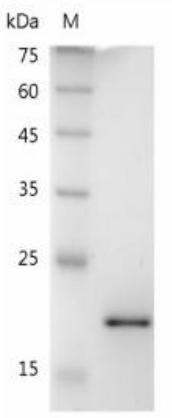
**Biological Activity:** Measure by its ability to induce cytotoxicity in L929 cells in the presence of actinomycin D. The $ED_{50}$ for this effect is < 1 ng/mL.

**Endotoxin:** <0.1 EU per 1 μg of the protein by the LAL method.

**Amino acid sequence:**

MPRGGRPQKVAAHITGITRRSNSALIPISKDGKTLGQKIESWESSRKGHSFLNHVLFRNGELVIEQEGLYYIYSQTYFRF QEAEDASKMVSKDKVRTKQLVQYIYKYTSYPDPIVLMKSARNSCWSRAEYGLYSIYQGGLFELKKNDRIFVSVTNEHLMDLDQEASFFGAFL IN with polyhistidine tag at the C-terminus.

**Formulation:** Lyophilized from a sterile filtered aqueous solution in 1×PBS, pH 7.4.




SDS-PAGE analysis of recombinant mouse TRAIL

## Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.

2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled $H_2O$. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.

3. The reconstituted solution can be stored at 2-8°C for up to 1 week.

4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 μg/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

## Storage

| Physical Appearance | Storage | Stability |
|---|---|---|
| Lyophilized powder | -20°C to -80°C | 1 year |
| Reconstitution (initial) | 2°C to 8°C | Less than 1 week |
| Reconstitution (after dilution) | -20°C to -80°C | 3 to 6 months |

## Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.