

## Recombinant Human sTRAIL/Apo2L (TNF-Related Apoptosis-Inducing Ligand/Apo2 Ligand)

### Product Description

TRAIL/Apo2L is a cytotoxic protein, which activates rapid apoptosis in tumor cells, but not in normal cells. TRAIL-induced apoptosis is achieved through binding to two death-signaling receptors, DR4 and DR5. These receptors belong to the TNFR superfamily of transmembrane proteins, and contain a cytoplasmic "death domain", which activates the cell's apoptotic machinery. The full length human TRAIL/Apo2L is a 281 amino acid protein, consisting of a 17 amino acid cytoplasmic domain, a 21 amino acid transmembrane domain, and a 243 amino acid extracellular domain. Recombinant Human soluble TRAIL/Apo2L is a 168 amino acid polypeptide (19.6 kDa), consisting of the TNF-homologous portion of the extracellular domain of the full length TRAIL/Apo2L protein.

### Typical Specifications

<b>Species</b>	Human
<b>Expression</b>	E. coli Cell Expressed
<b>Activity</b>	<u>Assay 1:</u> Typically 1-3 ng/mL ED <sub>50</sub> <u>Assay 2:</u> Typically 0.8-2.0 ng/mL ED <sub>50</sub>
<b>Purity</b>	≥98%
<b>Endotoxin</b>	<1.0 EU/μg
<b>Molecular Mass</b>	19.6 kDa
<b>Formulation</b>	1x PBS
<b>Country of Origin</b>	USA

### Purity Confirmation

This was determined by SDS-PAGE gel and HPLC analysis.

### Activity Assay

Assay#1: Determined by its ability to induce apoptotic cell death in TRAIL-sensitive U343MG cells.

Assay#2: Measured by its ability to induce apoptosis in LN-18 cells (human glioblastoma cells).

### AA Sequence

MRERGPQRVA	AHITGTRGRS	NTLSSPNSKN
EKALGRKINS	WESSRSGHSF	LSNLHLRNGE
LVIHEKGFY	IYSQTYFRFQ	EEIKENTKND
KQMVQYIYKY	TSYPDPILLM	KSARNSCWSK
DAEYGLYSIY	QGGIFELKEN	DRIFVSVTNE
HLIDMDHEAS	FFGAFLVG	

### Reconstitution Buffer

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.5-1.0 mg/ml. Do not vortex.

### Storage

For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% HSA) and store in working aliquots at -20°C to -80°C.

#### Limited Use and Restrictions

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