

Overview

Synonyms	TNF-related apoptosis-inducing Ligand, TNFSF10, Apo2 Ligand, TL2
Description	<p>TRAIL/Apo2L, also known as Tumor Necrosis Factor Super-Family 10 (TNFSF10), is a pleiotropic cytokine that belongs to the TNF superfamily. The full length TRAIL expressed <i>in vivo</i> is a Type II transmembrane protein, although the soluble form also exists and functions. TRAIL has four major receptors: two death receptors DR4 and DR5, two decoy receptors DcR1 and DcR2. TRAIL binds to the death receptors, recruits the FAS-associated death domain, activates caspases 8 and 10, and eventually leads to apoptosis. Because of its antitumor potential, TRAIL is actively studied as a therapeutic agent. On the other hand, abnormal expression of TRAIL in small arteries can induce the proliferation of smooth muscle cells, resulting in increasing vascular remodeling and pulmonary arterial hypertension.</p> <p>Recombinant human TRAIL/Apo2L (rhTRAIL) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 169 amino acids. A fully biologically active molecule, rhTRAIL has a molecular mass of 19.6 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.</p>
Accession No	P50591
Species	Human
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 40 ng/mL, measured by the cell growth inhibitory assay using RPMI-8226 cells, corresponding to a specific activity of > 2.5 × 10 ⁴ units/mg.
Sequence	<p>MVRERGPQRV AAHITGTRGR SNTLSSPNSK NEKALGRKIN SWESSRSGHS FLSNLHLRNG ELVIHEKGFY YIYSQTYFRF QEEIKENTKN DKQMVQYIYK YTSYPDPILL MKSARNSCWS KDAEYGLYSI YQGGIFELKE NDRIFVSVTN EHLIDMDHEA SFFGAFLVG</p>

Properties

Measured Molecular Weight	19.6 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human TRAIL/Apo2L (rhTRAIL) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhTRAIL remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only

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