TRAIL (soluble) (human), (recombinant) (His-tag)

TRAIL, also called Apo2L, is a member of the tumor necrosis factor family (TNF). In contrast to other family members such as TNFa/TNFR1 and FasL/Fas, TRAIL and its receptors DR4 and DR5 are widely expressed in many human tissues. TRAIL activates rapid apoptosis in many transformed cell lines but not in normal tissues, even though TRAIL and its receptors DR4 and DR5 are expressed on both cell types. A glycophospholipid-anchored cell surface protein designated decoy receptor 1 (DcR1 or TRID) acts as a decoy to inhibit TRAIL signaling. Thus, TRAIL and its signaling pathways may have direct applications in selective tumor cell death and cancer research.

Citations: 48 View Online »

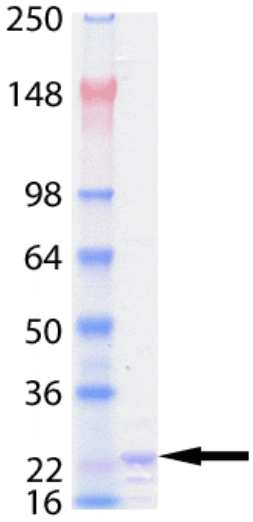
Ordering Information

Order Online »

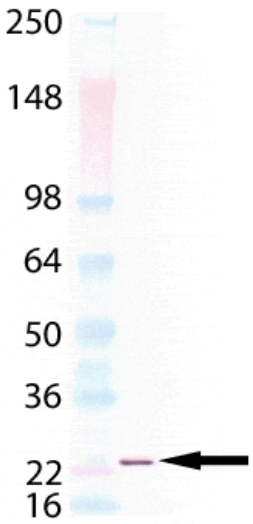
BML-SE721-0100	100µg

Manuals, SDS & CofA

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SDS-PAGE analysis: Lane 1: MW marker, Lane 2: 1µg TRAIL (soluble) (human), (recombinant) (His-tag) (Prod. No. BML-SE721).



Western Blot Analysis: Lane 1: MW marker, Lane 2: 50 ng of TRAIL (soluble) (human), (recombinant) (His-tag) probed with Anti-6X His tag® antibody.

Handling & Storage

Use/Stability	When stored at -80°C, this protein is stable at the concentration supplied, in its current storage buffer. Procedures such as dilution of the protein, followed by refreezing, could lead to loss of activity.
Handling	After initial defrost, aliquot product into individual tubes and refreeze at -70°C. Avoid freeze/thaw cycles.
Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Apo-2L, TNFSF 10, CD253
Biological Activity	Induces apoptosis in U937 cells at 1µg/ml, within 5 hours. At 0.5-2.0µg/ml, induces apoptosis in various thyroid carcinoma lines within 18 hours. User must determine optimal concentrations and time course for induction. Please note that this protein does not require a cross-linking enhancer to exhibit this potent activity.
Endotoxin Content	<0.1 EU/µg TRAIL, determined using chromogenic Limulus amebocyte lysate (LAL) test.
Formulation	Liquid. In PBS, containing 10% glycerol and 0.1mM DTT.
MW	~23kDa
Purity	≥95% (SDS-PAGE)
Purity Detail	Purified by multi-step chromatography.
Source	Produced in *E. coli*. Human TRAIL (aa 114-281) is fused to a His-tag.
Specificity	Binds to human and mouse TRAIL receptors and human osteoprotegerin (OPG).
UniProt ID	P50591

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