



TNF Ligand Receptor Superfamily Member 10B, human recombinant (rHuTNFRSF10B)

Catalog No: 97572
Lot No: XXXXX
Source: *E. coli*
Synonyms: Tumor necrosis factor receptor superfamily member 10B, Death receptor 5, TNF-related apoptosis-inducing ligand receptor 2, TRAIL receptor 2, TRAIL-R2, CD262, TNFRSF10B, DR5, KILLER, TRAILR2, TRICK2, ZTNFR9, TRICKB, TRICK2A, TRICK2B, KILLER/DR5

Background

TRAIL Receptor-1 (DR4) and TRAIL Receptor-2 (DR5) are members of the TNFR superfamily of transmembrane proteins and contain a cytoplasmic "death domain", which is capable of activating the cell's apoptotic machinery. These receptors are activated by binding to either membrane anchored or soluble TRAIL/Apo2L.

Description

TNFRSF10B human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 132 amino acids and having a molecular mass of 14.8 kDa. TNFRSF10B is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized TNFRSF10B in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized TNFRSF10B, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TNFRSF10B should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

ESALITQQDL APQQRVAPQQ KRSSPSEGLC PPGHHISEDG RDCISCKYQG DYSTHWNDLL FCLRCTRCD S GEVELSPCTT
TRNTVCQCEE GTFREEDSPE MCRKCR TGCP RGMVKVGDC T PWSDIECVHK ES

Activity

The TNFRSF10B reduced the production of LPS-induced TNF by its ability to neutralize endogenous TRAIL in fresh human PBMC. In this assay, endogenous TRAIL is induced during a 24 hour exposure to LPS (10 ng/ml) but in the presence of TNFRSF10B, TRAIL-induced TNF is suppressed.

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