sTRAIL Receptor-1 Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: soluble TRAIL Receptor-1, DR4, TNFRSF10A, Apo2

Cat. No.:

RBG10331010	(10 µg)
RBG10331050	(50 µg)
RBG10331100	(100 µg)

Description

TRAIL Receptor-1/DR4 and TRAIL Receptor-2/DR5 belong to the TNFR superfamily of transmembrane proteins, and contain a cytoplasmic “death domain,” which can activate the cell's apoptotic machinery. These receptors are activated by binding to either membrane-anchored or soluble TRAIL/Apo2L. The DR4 and DR5 receptors are both produced as type I transmembrane proteins, which contain an extracellular domain, a transmembrane domain, and a cytoplasmic domain. The recombinant soluble forms of DR4 and DR5 consist of the TNFR-homologous, cysteine-rich portion of their respective extracellular domains. Recombinant Human soluble TRAIL Receptor-1/DR4 is a 22.7 kDa protein (215 amino acid residues) consisting of the TNFR homologous, cysteine-rich portion of the extracellular domain.

Research topic

Others

Amino Acid Sequence

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MSGTGAAAAT PSKVWGSSAG RIEPRGGGRG ALPTSMGQHG PSARARAGRA PGPRPAREAS PRLRVHKTFK FVVVGVLLQV
VPSSAATIKL HDQSIGTQQW EHSPLGELCP PGSHRSERPG ACNRCTEGVG YTNASQQLFA CLPCTACKSD EEERSPCTTT
RNTACQCKPG TFRNDNSAEM CRKCSTGCPR GMVKVKDCTP WSDIECVHKE SGNGHN
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Source

E. coli

Purity

98%

Biological Activity

Measured by its ability to inhibit apoptosis in LN-18 cells. The expected ED_{50} for this effect is 0.4 -0.5 µg/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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