Datasheet for ABIN7198421

DcR2 Protein (His tag)

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Overview

Quantity:	100 µg
Target:	DcR2 (TNFRSF10D)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This DcR2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human TRAIL R4/TNFRSF10D Protein (His Tag)(Active)
Sequence:	Met 1-His 211
Characteristics:	A DNA sequence encoding the human TNFRSF10D (NP_003831.2) extracellular domain (Met 1-His 211) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	1.Measured by its binding ability in a functional ELISA. Immobilized human TNFRSF10D at 10 µ g/ml (100 µl/well) can bind biotinylated TNFSF10 with a linear range of 0.625-40 ng/ml.2. Measured by its ability to inhibit TRAIL-mediated cytotoxicity using L-929 mouse fibroblast cells treated with TRAIL. The ED50 for this effect is typically 0.05-0.5 µg/mL in the presence of 20 ng/ml Recombinant Human TRAIL/TNFSF10.

Target Details

Target:	DcR2 (TNFRSF10D)
Alternative Name:	TRAIL R4/TNFRSF10D (TNFRSF10D Products)
Background:	Background: Tumor necrosis factor receptor superfamily member 10D (TNFRSF10D), also known as TNF-related apoptosis-inducing ligand receptor 4 (TRAIL R4), CD264, and Decoy receptor 2, is a member of the TNF-receptor superfamily. This receptor contains an extracellular TRAIL-binding domain, a transmembrane domain, and a truncated cytoplamic death domain. This receptor does not induce apoptosis, and has been shown to play an inhibitory role in TRAIL-induced cell apoptosis. TRAIL R4/CD264/TNFRSF10D is widely expressed, in particular in fetal kidney, lung and liver, and in adult testis and liver. TRAIL R4/CD264/TNFRSF10D is also expressed in peripheral blood leukocytes, colon and small intestine, ovary, prostate, thymus, spleen, pancreas, kidney, lung, placenta and heart. The signaling capacity of TRAIL R4 is similar to that of TRAIL R1 and TRAIL R2 with respect to NF-κ B activation, but differs in its inability to induce apoptosis. TRAIL R4 retains a C-terminal element containing one third of a consensus death domain motif. Transient overexpression of TRAIL R4 in cells normally sensitive to TRAIL-mediated killing confers complete protection, suggesting that one function of TRAIL R4 may be inhibition of TRAIL cytotoxicity. Synonym: Tumor necrosis factor receptor superfamily member 10D; Decoy receptor 2; DcR2; TNF-related apoptosis-inducing ligand receptor 4; TRAIL receptor 4; TRAIL-R4; TRAIL receptor with a truncated death domain; CD264; TNFRSF10D; DCR2; TRAILR4; TRUNDD
Molecular Weight:	18.4 kDa
NCBI Accession:	NP_003831
Pathways:	Apoptosis

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.

Handling

Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.