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Datasheet for ABIN7535623

TWEAK Protein

Overview

Quantity:	100 µg
Target:	TWEAK (TNFSF12)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Active Recombinant Human TNFSF12/TWEAK Protein
Sequence:	KGRKTRARRA IAAHYEVHPR PGQDGAQAGV DGTVSGWEEA RINSSSPLRY NRQIGEFIVT RAGLYYLYCQ VHFDEGKAVY LKLDLLVDGV LALRCLEEFs ATAASSLGPQ LRLCQVSGLL ALRPGSSLRI RTLPWAHLKA APFLTYFGLF QVH
Specificity:	Lys97-His249(N-Met)
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.1EU/µg
Biological Activity Comment:	1. Measured by its binding ability in a functional ELISA. Immobilized Human TNFSF12 at 2 µg/mL (100 µL/well) can bind Human TNFRSF12A with a linear range of 0.1-2.3 ng/mL. 2. Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED ₅₀ for this effect is typically 0.81-3.24 ng/mL.

Target Details

Target:	TWEAK (TNFSF12)
Alternative Name:	TNFSF12/TWEAK (TNFSF12 Products)
Background:	<p>Description: TNFSF12 is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. It is a ligand for the FN14/TWEAKR receptor. TNFSF12 has overlapping signaling functions with TNF, but displays a much wider tissue distribution. It can induce apoptosis via multiple pathways of cell death in a cell type-specific manner. It is also found that TNFSF12 promotes proliferation and migration of endothelial cells, and thus acts as a regulator of angiogenesis. TNFSF12 also is a weak inducer of apoptosis in some cell types and mediates NF-kappa-B activation.</p> <p>Name: TNFSF12,APO3L,DR3LG,TNLTG4A,TWEAK</p>
Gene ID:	8742
UniProt:	O43508-1
Pathways:	Apoptosis

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.