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Datasheet for ABIN7534166
Osteoprotegerin Protein (His tag)

Overview

Quantity:	100 µg
Target:	Osteoprotegerin (TNFRSF11B)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Osteoprotegerin protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human TNFRSF11B/Osteoprotegerin Protein
Sequence:	ETFPKYLHY DEETSHQLL DKCPPGTYLK QHCTAKWKTV CAPCPDHYYT DSWHTSDECL YCSPVCKELQ YVKQECNRTH NRVCECKEGR YLEIEFCLKH RSCPPGFGVV QAGTPERNV CKRCPDGGFS NETSSKAPCR KHTNCSVFGL LLTQKGNATH DNICSGNSES TQKCGIDVTL CEEAFFRFAV PTKFTPWLS VLVDNLPGTK VNAESVERIK RQHSSQEQT FQLLKLWKHQ KDQDIVKKII QDIDLCENSV QRHIGHANLT FEQLRSLMES LPGKKVGAED IEKTIKACKP SDQILKLLSL WRKNGDQDT LKGLMHALKH SKTYHFPKTV TQSLKKTIRF LHSFTMYKLY QKLFLEMIGN QVQSVKISCL
Specificity:	Glu22-Leu401
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.

Product Details

Biological Activity Comment: 1.Measured by its binding ability in a functional ELISA. Immobilized Recombinant human TNFRSF11B at 2 µg/mL (100 µL/well) can bind Recombinant human TNFSF11 with a linear range of 2-8 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 28.5-114 pg/mL in the presence of 20 ng/mL Recombinant Human TRAIL/TNFSF10.

Target Details

Target: Osteoprotegerin (TNFRSF11B)

Alternative Name: TNFRSF11B/Osteoprotegerin ([TNFRSF11B Products](#))

Target Type: Chemical

Background: Description: Osteoprotegerin or TNFRSF11B is a member of the TNF-receptor superfamily. This protein is an osteoblast-secreted decoy receptor that functions as a negative regulator of bone resorption. This protein specifically binds to its ligand, osteoprotegerin ligand, both of which are key extracellular regulators of osteoclast development. Studies of the mouse counterpart also suggest that this protein and its ligand play a role in lymph-node organogenesis and vascular calcification.

Name: TNFRSF11B, OCIF, OPG, PDB5, TR1, TNF receptor superfamily member 11b,Osteoprotegerin,OCIF,OPG,PDB5,TR1

Gene ID: 4982

UniProt: [O00300](#)

Application Details

Restrictions: For Research Use only

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

Handling

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.