

Active Recombinant Human TNFRSF11B Protein, His tagged

Cat. No. TNFRSF11B-169H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human osteoprotegerin protein, fused to His-tag at C-terminus, was expressed in Hi-5 cell using baculovirus expression system and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	22-401aa
Description	<p>The protein encoded by this gene 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. Alternatively spliced transcript variants of this gene have been reported, but their full length nature has not been determined.</p>
Form	Liquid
Bio-activity	Measured by its ability to inhibit cytotoxicity using Jurkat human acute T cell leukemia cells in the presence of 2 ng/mL of human TRAIL. The ED50 range \leq 8 ng/mL.
Molecular Mass	44.7 kDa

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AA Sequence	ETFPKYLHYDEETSHQLLCDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHT SDECLYCSPVCKELQYVKQECNRTHNRVCECKEGRYLEIEFCLKHRSCPPGFGVVQ AGTPERNVCKRCPDGFFSNETSSKAPCRKHTNCSVFGLLLTQKGNATHDNICSGN SESTQKCGIDVTLCEEAFRFAVPTKFTPNWLSVLVDNLPGTKVNAESVERIKRQHS SSEQTFQLLKLWKHQNKDQDIVKKIQDIDLCENSVQRHIGHANLTFEQLRSLMESLP GKKVGAEDIEKTIKACKPSDQILKLLSLWRIKNGDQDTLKGLMHALKHSTYHFPKTV TQSLKKTIRFLHSFTMYKLYQKLFLEMIGNQVQSVKISCL
Endotoxin	<1 EU/μg by LAL
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	0.5 mg/mL (determined by Bradford assay)
Reference	1. Lacey, D.L. et al. (1998) Cell 93:165-76 2. Yasuda H. et al. (1998) PNAS 95:3597-602 3. A. Van Campenhout, Golledge J. (2009) Atherosclerosis 204:321-29

GENE INFORMATION

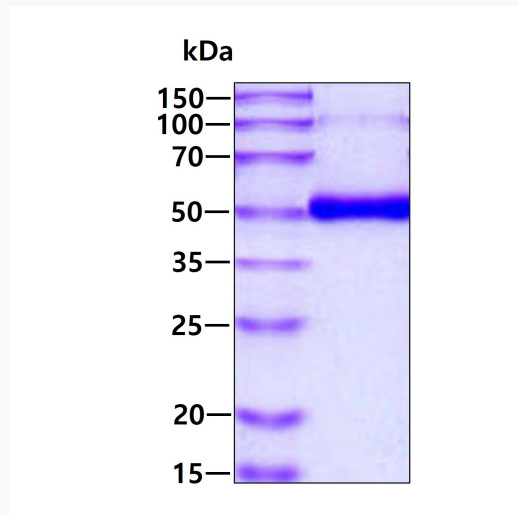
Gene Name TNFRSF11B tumor necrosis factor receptor superfamily, member 11b [Homo sapiens (human)]

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Official Symbol	TNFRSF11B
Synonyms	TNFRSF11B; tumor necrosis factor receptor superfamily, member 11b; OPG, osteoprotegerin; tumor necrosis factor receptor superfamily member 11B; OCIF; TR1; osteoprotegerin; osteoclastogenesis inhibitory factor; OPG; MGC29565
Gene ID	4982
mRNA Refseq	NM_002546
Protein Refseq	NP_002537
MIM	602643
UniProt ID	O00300

SDS-PAGE


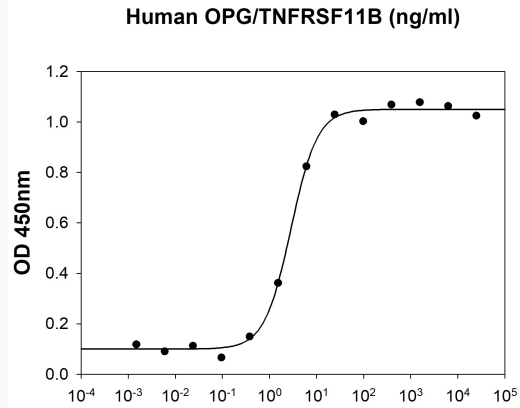
3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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Biological Activity



Human Human OPG/TNFRSF11B inhibits Human TRAIL cytotoxicity in the Jurkat human acute T cell leukemia cells. The ED50 range ≤ 8 ng/mL.

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