

Recombinant Human TNFRSF11B, His-tagged

Cat. No. TNFRSF11B-28920TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Osteoprotegerin fused to a His tag at the C-terminus, expressed in Hi-5 cells using a baculovirus expression system, 398 amino acids, MW 45.6kDa.
Species	Human
Description	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.
Conjugation	HIS
Tissue specificity	Highly expressed in adult lung, heart, kidney, liver, spleen, thymus, prostate, ovary, small intestine, thyroid, lymph node, trachea, adrenal gland, testis, and bone marrow. Detected at very low levels in brain, placenta and skeletal muscle. Highly expres
Form	Liquid
Storage buffer	Preservative: None Constituents: 10% Glycerol, PBS, pH 7.4

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	ADPETFPPKY LHYDEETSHQ LLC DKCPPGT YLKQHCTAKW KTVCAPCPDH YYTDSWHTSD ECLYCSPVCK ELQYVKQECN RTHNRVCECK EGRYLEIEFC LKHRSCPPGF GVVQAGTPER NTVCKRCPDG FFSNETSSKA PCRKHTNCSV FGLLLTQKGN ATHDNICSGN SESTQKCGID VTLCEEAFER FAVPTKFTPN WLSVLVDNLP GTKVNAESVE RIKRQHSSQE QTFQLLKLWK HQNKDQDIVK KIIQDIDLCE NSVQRHIGHA NLTFEQLRSL MESLPGKKVG AEDIEKTIKA CKPSDQILKL LSLWRIKNGD QDTLKGLMHA LKHSKTYHFP KTVTQSLKKT IRFLHSFTMY KLYQKLFLEM IGNQVQSVKI SCLSGRLVPR GSHHHHHH
Sequence Similarities	Contains 2 death domains.Contains 4 TNFR-Cys repeats.
Full Length	Full L.
GENE INFORMATION	
Gene Name	TNFRSF11B tumor necrosis factor receptor superfamily, member 11b [Homo sapiens]
Official Symbol	TNFRSF11B
Synonyms	TNFRSF11B; tumor necrosis factor receptor superfamily, member 11b; OPG, osteoprotegerin; tumor necrosis factor receptor superfamily member 11B; OCIF; TR1;
Gene ID	4982
mRNA Refseq	NM_002546

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Protein Refseq	NP_002537
MIM	602643
Uniprot ID	O00300
Chromosome Location	8q24
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Monoamine Transport, organism-specific biosystem; Osteoblast Signaling, organism-specific biosystem; Osteoclast Signaling, organism-specific biosystem;
Function	binding; cytokine activity; receptor activity;

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