

Recombinant Human Tumor Necrosis Factor Receptor Superfamily, Member 11b, His-tagged

Cat. No. TNFRSF11B-5142H **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	Human
Description	Osteoprotegerin (OPG) is a member of the tumor necrosis factor (TNF)-related family, is referred to as TNFRSF11B and part of the OPG/receptor activator of NF-κB ligand (RANKL)/receptor activator of NF-κB (RANK) triad. This cytokine that lacks any apparent cell-association motifs and exists as a soluble secreted protein, network regulates the differentiation and activation of osteoclasts and hence the critical balance between bone formation (osteoblasts) and bone resorption (osteoclasts).
Concentration	0.5 mg/ml
Form	Supplied as a liquid in PBS, pH 7.4, containing 10% glycerol.
Purity	> 85 % by SDS - PAGE
Sequence	22-401 amino acids: ADPETFPPKY LHYDEETSHQ LLCDKCPPGT YLKQHCTAKW KTVCAPCPDH YYTDSWHTSD ECLYCSPVCK ELQYVKQECN RTHNRVCECK EGRYLEIEFC LKHRSCPPGF GVVQAGTPER NTVCKRCPDG FFSNETSSKA

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	PCRKHTNCSV FGLLLTQKGN ATHDNICSGN SESTQKCGID VTLCEEAFRR FAVPTKFTPN WLSVLVDNLP GTK
Molecular Mass	45.6 kDa (398 aa) (On SDS-PAGE under denatured condition, apparent molecular weight of glycosylated rhOPG protein will be appeared at approximately 55 kDa)
Applications	SDS-PAGE
Endotoxin Levels	< 1.0 EU per ug of protein (determined by LAL method)
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	TNFRSF11B tumor necrosis factor receptor superfamily, member 11b [Homo sapiens]
Official Symbol	TNFRSF11B
Synonyms	TNFRSF11B; OPG; OCIF; Osteoclastogenesis inhibitory factor; TR1; MGC29565; Osteoprotegerin; Osteoclastogenesis inhibitory factor; tumor necrosis factor receptor superfamily, member 11b
Gene ID	4982
mRNA Refseq	NM_002546
Protein Refseq	NP_002537
MIM	602643

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UniProt ID	O00300
Chromosome Location	8q24
Pathway	Cytokine-cytokine receptor interaction; Monoamine Transport; Osteoblast Signaling; Osteoclast differentiation
Function	Binding; cytokine activity; receptor activity

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