

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

**Cat. No.** TNFRSF11B-5142H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	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
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	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).
<b>Concentration</b>	0.5 mg/ml
<b>Form</b>	Supplied as a liquid in PBS, pH 7.4, containing 10% glycerol.
<b>Purity</b>	> 85 % by SDS - PAGE
<b>Sequence</b>	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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<b>UniProt ID</b>	O00300
<b>Chromosome Location</b>	8q24
<b>Pathway</b>	Cytokine-cytokine receptor interaction; Monoamine Transport; Osteoblast Signaling; Osteoclast differentiation
<b>Function</b>	Binding; cytokine activity; receptor activity

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