



## Osteoprotegerin, His Tag, Hi-5, human recombinant (rHuOPG-His)

**Catalog No:** 97235  
**Lot No:** XXXXX  
**Source:** Hi-5  
**Synonyms:** TNFRSF11B, OPG, OCIF, Osteoclastogenesis inhibitory factor, Osteoprotegerin, TR1, MGC29565

### Background

Osteoprotegerin acts as decoy receptor for rankl and thereby neutralizes its function in osteoclastogenesis. OPG inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro. Bone homeostasis seems to depend on the local rankl/opg ratio. Osteoprotegerin may also play a role in preventing arterial calcification. May act as decoy receptor for trail and protect against apoptosis. Trail binding blocks the inhibition of osteoclastogenesis.

### Description

Osteoprotegerin human recombinant produced in baculovirus is a single, glycosylated polypeptide chain containing 398 amino acid residues (22-401), having a calculated molecular mass of 45.6 kDa. Osteoprotegerin is fused to 17 amino acid His Tag at C-terminus and purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered colorless clear solution.

### Formulation

The Osteoprotegerin protein solution contains PBS pH 7.4 and 10% glycerol.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

### Purity

Greater than 85.0% as determined by SDS-PAGE.

### Amino Acid Sequence

ADPETFPPKY LHYDEETSHQ LLCDKCPPGT YLKQHCTAKW KTVCAPCPDH YYTDSWHTSD ECLYCSPVCK ELQYVKQECN  
RTHNRVCECK EGRYLEIEFC LKHRSCPPGF GVVQAGTPER NTVCKRCPDG FFSNETSSKA PCRKHTNCSV FGLLLTQKGN  
ATHDNICSGN SESTQKCGID VTLCEEAFFR FAVPTKFTPN WLSVLVDNLP GTKVNAESVE RIKRQHSSQE QTFQLLKLWK  
HQNKDQDIVK KIIQDIDLCE NSVQRHIGHA NLTFEQLRSL MESLPGKKVG AEDIEKTIKA CKPSDQILKL LSLWRIKNGD  
QDTLKGMLHA LKHSKTYHFP KTVTQSLKKT IRFLHSFTMY KLYQKLFLEM IGNQVQSVKI SCLSGRLVPR GSHHHHHH

### Usage

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