

## OPG Human, Hi-5

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

**Catalog #:** CYPs-640

For research use only.

**Synonyms:** TNFRSF11B, OPG, OCIF, Osteoclastogenesis inhibitory factor, Osteoprotegerin, TR1, MGC29565.

**Source:** Hi-5.

**Physical Appearance:** Sterile Filtered colorless clear solution.

**Amino Acid Sequence:** ADPETFPPKY LHYDEETSHQ LLC DKCPPGT YLKQHCTAKW  
KTVCAPCPDH YYTDSWHTSD ECLYCSPVCK ELQYVKQECN RTHNRVCECK EGRYLEIEFC  
LKHRSCPPGF GVVQAGTPER NTVCKRCPDG FFSNETSSKA PCRKHTNCSV FGLLLTQKGN  
ATHDNICSGN SESTQKCGID VTLCEEAFFR FAVPTKFTPNWLSVLVDNLP GTKVNAESVE  
RIKRQHSSQE QTF

**Purity:** Greater than 85.0% as determined by SDS-PAGE.

**Formulation:**

Osteoprotegerin protein 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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

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.

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