

Osteoprotegerin, Human Recombinant, Hi-5

CATALOG NUMBER: COP-633-010P, 10 µg

Synonyms	TNFRSF11B, OPG, OCIF, Osteoclastogenesis inhibitory factor, Osteoprotegerin, TR1, MGC29565.
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 <i>in vitro</i> . 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	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.
Source	Hi-5
Amino Acid Sequence	<u>ADP</u> ETFPKYLHYDEETSHQLLCDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDS WHTSDECLYCSFVCKELQYVKQECNRTHNRVCECKEGRYLEIEFCLKHRSCPPGF GVVQAGTPERNTVCKRCPDGFSSNETSSKAPCRKHTNCSVFGLLLTQKGNATHDN ICSGNSESTQKCGIDVTLC EEAFFRFAVPTKFTPNWLSVLVDNLPGTKVNAESVE RIKRQHSSQEQT FQLLKLWKHQNKDQDIVKKIIQDIDL CENSQRHIGHANLTFE QLRSLMESLPGKKVGAEDIEKTIKACKPSDQILKLLSLWRINKNGDQDTLKGLMHA LKHSKTYHFPKTVTQSLKKTIRFLHSFTMYKLYQKLFLEMIGNQVQSVKISCL <u>SG</u> <u>RLVPRGSHHHHHH</u>
Formulation	The solution contains PBS pH7.4 and 10% glycerol.
Storage	Store at 4°C if the entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer period of time. Please avoid freeze-thaw cycles.
Purity	Greater than 85% as determined by SDS-PAGE.