

Recombinant Human Osteoprotegerin

Catalog No: #AP60123

Package Size: #AP60123-1 10ug #AP60123-2 100ug #AP60123-3 500ug

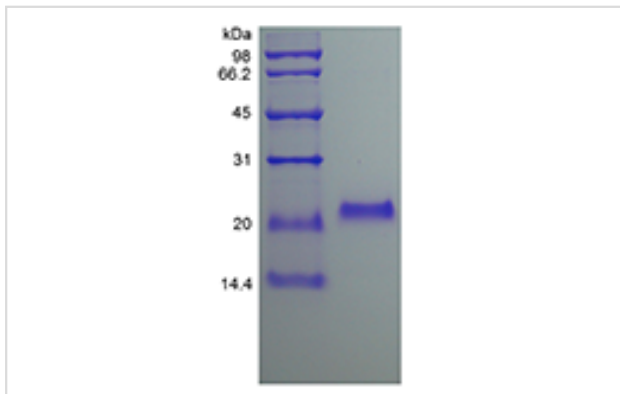
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Description

Product Name	Recombinant Human Osteoprotegerin
Host Species	E.coli
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Other Names	TNFRSF11B, Osteoclastogenesis Inhibitory Factor, Tumor Necrosis Factor Receptor Superfamily Member 11B
Uniprot	O00300
GeneID	4982
Calculated MW	Approximately 19.7 kDa, a single non-glycosylated polypeptide chain containing 173 amino acids.
Target Sequence	ETFPKYLYH DEETSHQLLC DKCPPGYLTK QHCTAKWKTV CAPCPDHYYT DSWHTSDECL Y CSPVCKELQ YVKQECNRTH NRVCECKEGR YLEIEFCLKH RSCPPGFGVV QAGTPERNVT CKRCPDGFFS NETSSKAPCR KHTNCSVFGL LLTQKGNATH DNICSGNSES TQK
Formulation	LyophilizedB fromB aB 0.2B umB filteredB concentratedB solutionB inB PBS.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 12 months from date of receipt, -20 to -70 °C as supplied.- 1 month, 2 to 8 °C under sterile conditions after reconstitution.- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Images



Background

Osteoprotegerin (OPG), also named osteoclastogenesis inhibitory factor (OCIF), and tumor necrosis factor receptor superfamily member 11B (TNFRSF11B), is a TNFRSF11B-encoded protein in humans. OPG is a 401 a.a. basic glycoprotein which comprises 7 structural domains. It is either a 60 kDa monomer or a 120 kDa dimer linked by disulfide bridges. OPG acts as a decoy receptor for the receptor activator of nuclear factor kappa B ligand (RANKL) and inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro and may also play a role in preventing arterial calcification. OPG has been applied to decrease bone resorption in women with postmenopausal osteoporosis and in patients with lytic bone metastases. Mature human OPG shares 86 %, 87 %, 92 %, 92 % and 88 % amino acid sequence identity with mouse, rat, equine, canine and bovine OPG, respectively.

Note: This product is for in vitro research use only