Recombinant Human Osteoprotegerin

Catalog No: #AP60123

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

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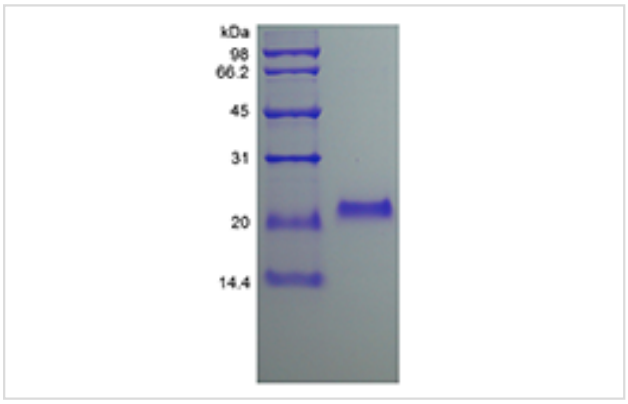
Description

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
Calculated MW	Approximately 19.7 kDa, a single non-glycosylated polypeptide chain containing 173 amino acids.
Target Sequence	ETFPPKYLHY DEETSHQLLC DKCPPGTYLK QHCTAKWKTV CAPCPDHYYT DSWHTSDECL YCSPVCKELQ YVKQECNRTH NRVCECKEGR YLEIEFCLKH RSCPPGFGVV QAGTPERNTV CKRCPDGFFS NETSSKAPCR KHTNCSVFGL LLTQKGNATH DNICSGNSES TQK
Formulation	LyophilizedB fromB aB 0.2B umB filteredB concentratedB solutionB inB PBS.B
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. -□A minimum of 12 months from date of receipt, when stored at ≤-20 °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 and is not intended for use in humans or animals.