

Osteoprotegerin/Fc Chimera Active Protein | OPG active protein

Recombinant Human Osteoprotegerin/Fc Chimera

CATALOG #
AAA10811

PRODUCT SYNONYMS

Osteoprotegerin/Fc Chimera; Recombinant Human Osteoprotegerin/Fc Chimera; OPG Fc Human; Osteoprotegerin Human Recombinant /Fc Chimera; TNFRSF11B; OPG; OCIF; Osteoclastogenesis inhibitory factor; TR1; MGC29565; OPG Fc; OPG active protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 95.0% as determined by(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	OPG was lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, pH 6.0, 150mM NaCl and 0.02 % Tween-80.
Sequence	OPG22-201< br>ETFFPKY LHYDEETSHQ LLC DKCPPGT YLKQHCTAKW KTVCAPCPDH YYTDSWHTSD ECLYCSPVCK ELQYVKQECN RTHNRVCECK EGRYLEIEFC LKHRSCPPGF GVVQAGTPER NTVCKRCPDG FFSNETSSKA PCRKHTNCSV FGLLLTQKGN ATHDNICSGN SESTQKCGID VTL Fc232 EPKSSDKTHT CPPCPAPEFE GAPSVFLFPP KPKDTLMISR TPEVTCVVVD VSHEDPEVKF NWYVDGVEVH NAKTKPREEQ YNSTYRVVSV LTVLHQDWLN GKEYCKVSN KALPTPIEKT ISKAKGQPRE PQVYTLPPSR DELTKNQVSL TCLVKGFYPS DIAVEWESNG QPENNYKTP PVLDSGDSFF LYSKLTVDKS RWQQGNVFSC SVMHEALHNH YTKSLSLSP GK
Sequence Length	401
Source	Pichia Pastoris
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized Osteoprotegerin in sterile 18M Omega-cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED ₅₀ as determined by neutralizing the stimulation of U937 cells is less than 10ng/ml corresponding to a specific activity of > 1.0 x 10 ⁵ IU/mg in the presence of 10ng/ml soluble Human RANKL (sRANKL).
Preparation and Storage	Lyophilized Osteoprotegerin although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution OCIF should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for OPG active protein	Description: Recombinant OPG produced in yeast contains 2x412 amino acid residues, including 180 residues from mature OPG (a.a 22-201) and 232 residues from the Fc protein of human IgG1, and has a calculated molecular mass of 109.6kDa. 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.
Product Categories/Family for OPG active protein	Cytokines and Growth Factors; Growth Factors; Osteoprotegerin

NCBI AND UNIPROT INFORMATION

NCBI GI #	148743793
NCBI GeneID	4982
NCBI Accession #	NP_002537.3
NCBI GenBank Nucleotide #	NM_002546.3
UniProt Accession #	O00300; O60236; Q53FX6; Q9UHP4; B2R9A8
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 11B
NCBI Official Synonym Full Names	tumor necrosis factor receptor superfamily, member 11b
NCBI Official Symbol	TNFRSF11B
NCBI Official Synonym Symbols	OPG; TR1; OCIF
NCBI Protein Information	tumor necrosis factor receptor superfamily member 11B; osteoclastogenesis inhibitory factor; osteoprotegerin
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 11B
UniProt Gene Name	TNFRSF11B
UniProt Synonym Gene Names	OCIF; OPG
UniProt Entry Name	TR11B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/opg-active-protein/osteoprotegerin-fc-chimera/10811>