

Recombinant Human Osteoprotegerin/Fc Chimera (rHuOPG-Fc)

ScienCell Product Sheet

Catalog Number:	108-08
Source:	Pichia. Pastoris.
Molecular Weight:	Recombinant OPG/Fc contains 412 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 46.5 kDa. As a result of glycosylation, the recombinant OPG/Fc migrates as a 49 kDa protein in SDS-PAGE under reducing conditions.
Quantity:	10ug/50ug/1000µg
Purity:	>90% by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to the standard. Determined by its ability to neutralize the stimulation of U937 cells treated with 10 ng/ml of soluble RANKL.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation: AA Sequence:	Lyophilized from a 0.2µm filtered concentrated (0.5mg/ml) solution in PBS, pH 7.4. OPG 22-201: ETFPPKYLHYDEETSHQLLCDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDECLY
	CSPVCKELQYVKQECNRTHNRVCECKEGRYLEIEFCLKHRSCPPGFGVVQGTPERNTVCKRC PDGFFSNETSSKAPCRKHTNCSVFGLLLTQKGNATHDNICSGN SESTQKCGIDVTL Fc232: EPKSSDKTHTCPPCPAPEFEGAPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWY VDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPTPIEKTISKA KGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSD GSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK
Endotoxin:	Less than 1EU/ μ g of rHuOPG-Fc as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at \leq -20°C. Further dilutions should be made in appropriate buffered solutions.
Storage:	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE .

Human Osteoprotegerin

Osteoprotegerin (OPG) is a member of the INFR superfamily that can act as a decoy receptor for KANKL. Binding of soluble OPG to

sRANKL inhibits osteoclastogenesis by interrupting the signaling between stromal cells and osteoclastic progenitor cells, thereby leading to excess accumulation of bone and cartilage. OPG is expressed in a wide variety of tissues including adult heart, lung, kidney, liver, spleen, prostate, lymph node and bone marrow. OPG is secreted both as a monomeric and a dimeric protein. Its primary structure consists of seven distinct domains, four of which corresponds to the extracellular cysteine-rich domains of TNFR proteins and constitutes the soluble OPG.

ScienCell Research LaboratoriesWebsite: www.sciencellonline.com
Tel: 877-602-8549Email: info@sciencellonline.com
Fax: 760-602-8575