

Recombinant Human TNFRSF11B

Cat. No. TNFRSF11B-187H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Osteoprotegerin encoding the mature human Osteoprotegerin protein sequence Met 1 - Leu 401 was inserted into a suitable expression vector and expressed in NSO cells.
Species	Human
Source	Mammalian Cells
Protein Length	1-401 a.a.
Description	Osteoprotegerin (OPG), also known as osteoclastogenesis inhibitory factor (OCIF) is a cytokine, which can inhibit osteoclast differentiation, activity, and survival. It is a member of the tumor necrosis factor (TNF) receptor superfamily. OPG may provide a pharmacological tool for osteoporotic and erosive bone disorders.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Human OPG was determined by its ability to neutralize apoptosis of mouse L-929 cells treated with 20 ng/mL cross-linked soluble rhTRAIL. The expected ED50 for this effect is typically 8 - 24 ng/ml.

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Molecular Weight	The predicted molecular weight of each monomer of mature OPG (generated after removal of a 21 amino acid signal peptide) is Mr 43.5 kDa. However, the actual molecular weight as observed by migration on SDS Page under reducing conditions, as a result of glycosylation, of recombinant Human OPG is Mr 55 kDa.
Formulation	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name	TNFRSF11B tumor necrosis factor receptor superfamily, member 11b [Homo sapiens]
Synonyms	TNFRSF11B, OPG, OCIF, Osteoclastogenesis inhibitory factor, TR1, MGC29565, Osteoprotegerin, TR1, Osteoclastogenesis inhibitory factor, tumor necrosis factor receptor superfamily, member 11b
Gene ID	4982
mRNA Refseq	NM_002546
Protein Refseq	NP_002537
MIM	602643

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UniProt ID	O00300
Chromosome Location	8q24
Pathway	Cytokine-cytokine receptor interaction
Function	cytokine activity; protein binding; receptor activity

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