

Recombinant Mouse Tnfrsf11b, Fc-His

Cat. No. Tnfrsf11b-189M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse OPG (Glu22-Leu401) produced in <i>NSO Cells</i> was fused to Human IgG1 (Pro100-Lys330) - 6xHis tag.
Species	Mouse
Source	Mammalian Cells
Protein Length	22-401 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.
Molecular Weight	The predicted molecular weight of Recombinant Mouse OPG is Mr 70.9 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 100 kDa.
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 Mouse OPG was determined by its ability to inhibit TRAIL

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mediated cytotoxicity using L929 mouse fibrosarcoma cells treated with TRAIL. The expected ED50 for this effect is 25-50 ng/ml in the presence of 50 ng/ml of recombinant human TRAIL.

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. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name

Tnfrsf11b tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin) [Mus musculus]

Synonyms

Tnfrsf11b; tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin); Opg; TR1; OCIF; osteoprotegerin; osteoclastogenesis inhibitory factor; OPG

Gene ID

18383

mRNA Refseq

NM_008764

Protein Refseq

NP_032790

UniProt ID

O08712

Chromosome Location

15 D1

Pathway

Cytokine-cytokine receptor interaction

Function

protein binding; receptor activity

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