Native Human Osteoprotegerin

Cat. No. TNFRSF11B-54H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant protein is produced in human embryo kidney cells. The cysteine-rich region of human Osteoprotegerin (aa 22-202) is fused to the Fc portion of human IgG1. The chimeric protein has an apparent molecular mass of 61 kDa by SDS-PAGE (reducing conditions).
Species	Human
Source	HEK293
ProteinLength	22-202 a.a.
Form	Lyophilized human Osteoprotegerin, 1 mg/ml in PBS after constitution.
Purity	>95% as determined by SDS-PAGE.
Applications	Inibition of TRAIL-mediated apoptosis. The rhOPG:Fc recombinant protein exerts its inhibitory activity in the concentration range of 5-20 μg/ml. (Human Jurkat lymphoma cells (50,000 cells in 100 ul DMEM medium containing 5% fetal calf serum) were incubated with 0.1 μg/ml sTRAIL plus 2 ug/ml enhancer (anti-flag antibody M2) and increaing concentrations of rhOPG:Fc fusion protein in a 96-well plate for 16 hr at 37°C. Concentrations of rhOPG:Fc required to inhibit may vary depending on the cell type studied and on the concentration of sTRAIL used to kill the cells.
Usage	For in vitro research use only. Not for use in diagnostics or in humans.

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Storage	This product is stable at –20°C for at least 6 months. Once rehydrated it is recommended to prepare appropriate aliquots and to store them at –20°C. Avoid repeated freezing and thawing (activity may decrease).
Warning	No warranties, expressed or implied, are made regarding the use of this product. Creative Biomart is not liable for any damage, personal injury, or economic loss caused by this product.

GENE INFORMATION

Gene Name	TNFRSF11B tumor necrosis factor receptor superfamily, member 11b [Homo sapiens]
Official Symbol	TNFRSF11B
Synonyms	TNFRSF11B; tumor necrosis factor receptor superfamily, member 11b; OPG, osteoprotegerin; tumor necrosis factor receptor superfamily member 11B; OCIF; TR1; osteoprotegerin; osteoclastogenesis inhibitory factor; OPG; MGC29565;
Gene ID	4982
mRNA Refseq	NM_002546
Protein Refseq	NP_002537
MIM	602643
UniProt ID	O00300
Chromosome Location	8q24

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Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Monoamine Transport, organism-specific biosystem; Osteoblast Signaling, organism-specific biosystem; Osteoclast Signaling, organism-specific biosystem; Osteoclast differentiation, organism-specific biosystem; Osteoclast differentiation, conserved biosystem;
Function	binding; cytokine activity; receptor activity;

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