

Recombinant Human Osteoprotegerin Ligand

Cat. No. TNFSF11-P1002H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman OPGL fused with Fc fragment of Human IgG or 6His was produced in CHOcells.
Species	Human
Source	CHO
Description	The tumour-necrosis-factor-family molecule osteoprotegerin ligand has been identified as a potential osteoclast differentiation factor and regulator of interactions between T cells and dendritic cells in vitro. OPGL is a new regulator of lymph-node organogenesis and lymphocyte development and is an essential osteoclast differentiation factor in vivo. Osteoblasts/stromal cells express OPGL /TNF-related activation-induced cytokine /receptor activator of NF-κB ligand (RANKL)" as a membrane associated factor. Osteoclast precursors which possess RANK, a TNF receptor family member, recognize OPGL/ TRANCE/RANKL through cell-to-cell interaction with osteoblasts/stromal cells, and differentiate into osteoclasts in the presence of macrophage colony-stimulating factor.
Protein Construction	Recombinanthuman OPGL is combined the Sequence of extracellular region of OPGL and Fc fragment of Human IgG or 6His.
Purity	>95% as determined by SDS-PAGE and HPLC
Endotoxin	<1.0 EU per 10 mg protein as determined by the LAL method
Stability	Samples are stable for up to six months from date of receipt at -20°C and are stable

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	fortwo months at 4°C.
Molecular Mass	Recombinant humanOPGL comprises 410 and 184 amino acids of OPGL-Fc and OPGL-6His,respectively. It is about 80kDa and 33 kDa of OPGL-Fc and OPGL-6His, underreducing conditions, respectively.
Predicted N terminal	IRAEKAMVDG
Formulation	Normally20-50mM NaAC-HAC and 100-150 mM NaCl are added, pH 5.0-6.0.
Storage	Store itunder sterile conditions at -70°Cupon receiving. Recommend to pack the protein intosmaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	TNFSF11 tumor necrosis factor (ligand) superfamily, member11 [Homo sapiens]
Official Symbol	TNFSF11
Synonyms	TNFSF11; tumor necrosis factor (ligand) superfamily, member 11;ODF; OPGL; sOdf; CD254; OPTB2; RANKL; TRANCE; hRANKL2; tumor necrosis factorligand superfamily, member 11; OTTHUMP00000178585; osteoprotegerin ligand;osteoclast differentiation factor; TNF-related activation-induced cytokine;receptor activator of nuclear factor kappa B ligand; Tumor necrosis factorligand superfamily member 11, membrane form; Tumor necrosis factor ligandsuperfamily member 11, soluble form; CD254 antigen; Osteoprotegerin ligand
Gene ID	8600
mRNA Refseq	NM_003701

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Protein Refseq	NP_003692
MIM	602642
UniProt ID	O14788
Chromosome Location	13q14
Pathway	Cytokine-cytokine receptor interaction; IL6-mediated signaling events; Osteoblast Signaling
Function	cytokineactivity; protein binding; receptor activity; tumor necrosis factor receptorbinding

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