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Datasheet for ABIN7319094

Osteoprotegerin Protein (Fc Tag)

Overview

Quantity:	50 µg
Target:	Osteoprotegerin (TNFRSF11B)
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Osteoprotegerin protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human Osteoprotegerin/TNFRSF11B Protein (Fc Tag)(Active)
Sequence:	Glu22-Leu201
Characteristics:	Recombinant Human Osteoprotegerin is produced by our Mammalian expression system and the target gene encoding Glu22-Leu201 is expressed with a Fc tag at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Human OPG-Fc at 2µg/ml(100 µl/well) can bind Mouse RANKL-His(Cat: PKSM041165). The ED50 of Mouse OPG-Fc is 2.44ug/ml .

Target Details

Target:	Osteoprotegerin (TNFRSF11B)
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Target Details

Alternative Name: Osteoprotegerin/TNFRSF11B ([TNFRSF11B Products](#))

Target Type: Chemical

Background: TNFRSF11B is a secreted protein, containing 2 death domains and 4 TNFR-Cys repeats. TNFRSF11B is a decoy receptor for the receptor activator of nuclear factor kappa B ligand (RANKL). By binding RANKL, TNFRSF11B inhibits nuclear kappa B (NF-κB) which is a central and rapid acting transcription factor for immune-related genes, and a key regulator of inflammation, innate immunity, and cell survival and differentiation. TNFRSF11B levels are influenced by voltage-dependent calcium channels Cav1.2. TNFRSF11B can reduce the production of osteoclasts by inhibiting the differentiation of osteoclast precursors into osteoclasts and also regulates the resorption of osteoclasts in vitro and in vivo. TNFRSF11B binding to RANKL on osteoblast/stromal cells, blocks the RANKL-RANK ligand interaction between osteoblast/stromal cells and osteoclast precursors. This has the effect of inhibiting the differentiation of the osteoclast precursor into a mature osteoclast.

Synonym: Tumor necrosis factor receptor superfamily member 11B, Osteoclastogenesis inhibitory factor, Osteoprotegerin, TNFRSF11B, OCIF, OPG, PDB5, TR1

Molecular Weight: 47.2 kDa

UniProt: [O00300](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.