Datasheet for ABIN7505320

RANKL Protein (AA 22-300) (GST-His-Tag)

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Overview

Quantity:	100 µg
Target:	RANKL (TNFSF11)
Protein Characteristics:	AA 22-300
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RANKL protein is labelled with GST-His-Tag.

Product Details

Sequence:	Glu 22-Glu 300
Characteristics:	A DNA sequence encoding the Human (OPG) protein (O00300) (Glu 22-Glu 300) was expressed with a N-GST&C-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	RANKL (TNFSF11)
Alternative Name:	OPG (TNFSF11 Products)
Background:	Abbreviation: OPG Target Synonym: Tumor necrosis factor receptor superfamily member 11B,Osteoclastogenesis inhibitory factor,Osteoprotegerin,TNFRSF11B,OCIF,OPG,PDB5,TR1 Background: TNFRSF11B is a secreted protein, containing 2 death domains and 4 TNFR-Cys

Target Details

	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 channelsCav1.2. TNFRSF11B can reduce the production of osteoclasts by inhibiting the differentiation of osteoclast precursors (osteoclasts are related to monocytes/macrophages and are derived from granulocyte/macrophage-forming colony units (CFU-GM)) into osteoclasts and also regulates the resorption of osteoclasts in vitroand in vivo. TNFRSF11B binding to RANKL on osteoblast/stromal cells, blocks the RANKL-RANK ligand interaction between
Molecular Weight:	Calculated MW: 55.58 kDa Observed MW: 55 kDa
UniProt:	O00300
Pathways:	NF-kappaB Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
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.
Expiry Date:	12 months