

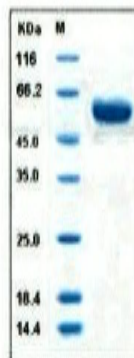
TNFRSF11B

Recombinant Human Osteoprotegerin / TNFRSF11B, His Tag

Catalog No.	CRH435A-His CRH435B-His	Quantity:	50 µg 100 µg
Alternate Names:	Tumor necrosis factor receptor superfamily member 11b, Osteoclastogenesis inhibitory factor, OPG		
Description:	Osteoprotegerin (OPG), or Tumor necrosis factor receptor superfamily member 11B (TNFRSF11B), is a TNFRSF11B-encoded protein in humans. OPG is a 401 a.a. basic glycoprotein which comprises 7 structural domains. It is either a 60 kDa monomer or a 120 kDa dimer linked by disulfide bridges. OPG acts as a decoy receptor for the receptor activator of nuclear factor kappa B ligand (RANKL) and inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro and may also play a role in preventing arterial calcification. OPG has been applied to decrease bone resorption in women with postmenopausal osteoporosis and in patients with lytic bone metastases. Mature human OPG shares 86 %, 87 %, 92 %, 92 % and 88 % amino acid sequence identity with mouse, rat, equine, canine and bovine OPG, respectively.		
UniProt ID:	O00300		
Gene ID:	4892		
Protein Construction:	The DNA sequence encoding the human TNFRSF11B (Met 1- Leu 401) was fused with a polyhistidine tag at the C-terminus.		
Source:	HEK293		
Molecular Weight:	Predicted as 45.3 kDa (391 aa) Migrates at ~55 kDa on SDS-PAGE, under reducing conditions.		
Formulation:	Lyophilized from sterile-filtered PBS, pH 7.4, containing 15% trehalose		
Purity:	> 97% by SDS-PAGE		
Endotoxin Level:	< 1.0 EU/µg as determined by LAL method.		
Predicted N-terminal:	Glu 22		
Biological Activity:	In a functional ELISA, immobilized human TNFRSF11B-His at 10 µg/ml (100 µl/well) binds human Fc-TNFSF11 over a linear range of 3.125-200 ng/mL.		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to the vial to prepare a stock solution of 0.25 mg/ml.		
Storage & Stability:	Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare aliquots of the stock solution and store at -20°C to -80°C. Avoid repeated freeze/thaw cycles.		



SDS-PAGE reducing



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Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com