

Tnfrsf11b

Recombinant Mouse Osteoprotegerin / TNFRSF11B (Fc Tag)

Catalog No.	CRM761A-Fc CRM761B-Fc	Quantity:	20 µg 100 µg
Alternate Names:	Tumor necrosis factor receptor superfamily member 11B, Osteoclastogenesis inhibitory factor, Osteoprotegerin		
Description:	<p>Osteoprotegerin or TNFRSF11B is a member of the TNF-receptor superfamily. This protein is an osteoblast-secreted decoy receptor that functions as a negative regulator of bone resorption. This protein specifically binds to its ligand, osteoprotegerin ligand, both of which are key extracellular regulators of osteoclast development. Studies of the mouse counterpart also suggest that this protein and its ligand play a role in lymph-node organogenesis and vascular calcification. Alternatively spliced transcript variants of this gene have been reported, but their full length nature has not been determined.</p> <p>Osteoprotegerin/TNFRSF11B acts as decoy receptor for RANKL and thereby neutralizes its function in osteoclastogenesis. This protein may inhibit the activation of osteoclasts and promotes osteoclast apoptosis in vitro. Bone homeostasis seems to depend on the local RANKL/OPG ratio. Osteoprotegerin/TNFRSF11B also play a role in preventing arterial calcification, act as decoy receptor for TRAIL and protect against apoptosis. TRAIL binding blocks the inhibition of osteoclastogenesis.</p>		
UniProt ID:	O08712		
Accession Number:	NP_032790.3		
Protein Construction:	A DNA sequence encoding the mouse Tnfrsf11b (Met1-Leu401) was expressed with the Fc region of human IgG1 at the C-terminus.		
Source:	HEK293 Cells		
Formulation:	<p>Lyophilized from sterile PBS, pH 7.4.</p> <p>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.</p>		
Molecular Weight:	The recombinant mouse Tnfrsf11b/Fc consists 618 amino acids with a predicted MW of 70.2 kDa.		
Purity:	> 95 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg protein as determined by the LAL method.		
Biological Activity:	Testing in progress		
Predicted N-terminal:	Glu 22		
Reconstitution:	<p>Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.</p> <p>DO NOT VORTEX. Allow several minutes for complete reconstitution.</p>		



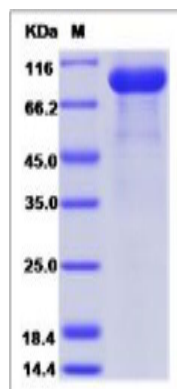
Storage & Stability:

Stable for up to 1 year from date of receipt at -20°C to -80°C

After reconstitution, store working aliquots at -20°C to -80°C.

Avoid repeated freeze-thaw cycles.

SDS-PAGE



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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