

Recombinant Human OPG (C-6His)

Catalog #	EPT052
Expression Host	Human Cells
DESCRIPTION	Recombinant Human Osteoprotegerin is produced by
	our Mammalian expression system and the target
	gene encoding Glu22-Leu401 is expressed with a 6His
	tag at the C-terminus.
Accession	O00300
Synonyms	Tumor Necrosis Factor Receptor Superfamily Member
	11B; Osteoclastogenesis Inhibitory Factor;
	Osteoprotegerin; TNFRSF11B; OCIF; OPG
Mol Mass	44.65 KDa
AP Mol Mass	57 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing
	SDS-PAGE.
Endotoxin	Less than 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL
	test.
FORMULATION	Lyophilized from a 0.2 μ m filtered solution of 20mM
	PB, 150mM NaCl, pH 7.4.



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RECONSTITUTION Always centrifuge tubes before opening.Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. SHIPPING The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below. Lyophilized protein should be stored at < -20 ° C, STORAGE though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at $< -20^{\circ}$ C for 3 months. 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



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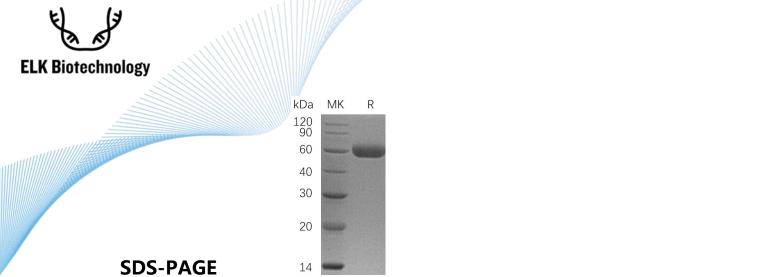
immune-related genes, and a key regulator of inflammation, innate immunity, and cell survival and differentiation. TNFRSF11B levels are influenced by channelsCav1.2. voltage-dependent calcium TNFRSF11B can reduce the production of osteoclasts by inhibiting the differentiation of osteoclast (osteoclasts precursors 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 osteoblast/stromal cells and osteoclast precursors. This has the effect of inhibiting the differentiation of the osteoclast precursor into a mature osteoclast.



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