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TNFRSF11B Recombinant Human Osteoprotegerin

Catalog No.	CRO200A	Quantity:	10 µg
	CRO200B		50 μg
			n mg
Alternate Names:	factor, OPG	r superramily member 11b,	Osteoclastogenesis inhibitory
Description:	Osteoprotegerin (OPG), also named osteoclastogenesis inhibitory factor (OCIF), and 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.		
	4082		
Source:	4982 F. coli		
Molecular Weight:	19.7 kDa (173.aa)		
Formulation:	Lvophilized from sterile-filtere	d 20 mM PBS. pH 6.0	
Purity:	≥95% by SDS-PAGE and HP	LC analyses	
Endotoxin Level:	<1 EU/µg as determined by L/	AL method.	
Biological Activity:	ED ₅₀ < 10 ng/ml, as determine presence of 10 ng/mL soluble	ed by neutralizing the stimul rHuRANKL (sRANKL).	ation of U937 cells in the
Specific Activity:	>1.0 × 10° IU/mg		
Amino Acia Sequence:	ETFPPKYLHY DEETSHQLLC DSWHTSDECL YCSPVCKEL RSCPPGFGVV QAGTPERNT LLTQKGNATH DNICSGNSES	C DKCPPGTYLK QHCTAK Q YVKQECNRTH NRVCE V CKRCPDGFFS NETSS S TQK	KTV CAPCPDHYYT CKEGR YLEIEFCLKH KAPCR KHTNCSVFGL
Reconstitution:	Centrifuge vial prior to oper concentration of 0.1-1.0 mg/m	iing. Add sterile distilled wa II.	ater or aqueous buffer to a
Storage & Stability:	Upon receipt, store at -20°C to to one week at 2-8°C. For ma to -80°C. For long term storag protein such as 0.1% BSA or Avoid repeated freeze/thaw	b -80°C. After reconstitution ximal stability, prepare work e of reconstituted protein, it HSA be added. This depend cycles.	the preparation is stable for up king aliquots and store at -20°C t is recommended that a carrier ds on the particular application.



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