

Datasheet for ABIN935697 Osteoprotegerin Protein



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Overview

Quantity:	50 µg
Target:	Osteoprotegerin (TNFRSF11B)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	METFPPKYLH YDEETSHQLL CDKCPPGYL KQHCTAKWKT VCAPCPDHYY TDSWHTSDEC LYCSPVCKEL QYVKQECNRT HNRVCECKEG RYLEIEFCLK HRSCPPGFGV VQAGTPERN VCKRCPDGFF SNETSSKAPC RKHTNCSVFG LLLTQKGNAT HDNICSGNSE STQK
Characteristics:	Purified recombinant Human Osteoprotegerin protein Expression System: E.coli Bioactivity: Determined by its ability to neutralize the stimulation of U937 cells treated with 10 ng/mL of soluble RANKL (sRANKL).
Purity:	> 98 % pure
Endotoxin Level:	< 0.1 ng per µg (1 EU/µg).

Target Details

Target:	Osteoprotegerin (TNFRSF11B)
Alternative Name:	Osteoprotegerin (TNFRSF11B Products)

Target Details

Target Type:	Chemical
Background:	<p>Osteoprotegerin (OPG) is a member of the TNFR superfamily that can act as a decoy receptor for RANKL. Binding of soluble OPG to sRANKL inhibits osteoclastogenesis by interrupting the signaling between stromal cells and osteoclastic progenitor cells, thereby leading to excess accumulation of bone and cartilage. OPG is expressed in a wide variety of tissues including adult heart, lung, kidney, liver, spleen, prostate, lymph node and bone marrow. OPG is secreted both as a monomeric and a dimeric protein. Its primary structure consists of seven distinct domains, four of which corresponds to the extracellular cysteine-rich domains of TNFR proteins and constitutes the soluble OPG.</p> <p>Alternative Names: osteoclastogenesis inhibitory factor protein, TNFRSF11B protein, OCIF protein, OPG protein, TR1 protein</p>
Molecular Weight:	20.0 kDa

Application Details

Application Notes:	Each Investigator should determine their own optimal working dilution for specific applications.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute with 0 M Tris pH 7.5 to 0.1-1.0 mg/mL.
Buffer:	Lyophilized from 10 mM tris, pH 7.5, with 70 mM NaCl.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 4 °C until reconstitution. Following reconstitution aliquot and freeze at -20 °C for long term storage.