

Active Human Osteoprotegrin Reference Standard

Cat. No. TNFRSF11B-20H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Mammalian Cells
Description	Osteoprotegerin acts as decoy receptor for rankl and thereby neutralizes its function in osteoclastogenesis. OPG inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro. Bone homeostasis seems to depend on the local rankl/opg ratio. Osteoprotegerin may also play a role in preventing arterial calcification. May act as decoy receptor for trail and protect against apoptosis. Trail binding blocks the inhibition of osteoclastogenesis.
Form	Liquid
Bio-activity	The level of Osteoprotegrin in the serum was quantified using ELISA.
Usage	For research use only, not for diagnostic or therapeutic use.
Quality Control Test	Generated from a human serum pool. This lot has been tested by standard laboratory procedures and found to be negative for HIV 1, HIV 2, Hepatitis B and Hepatitis C.
Storage	Stored at -20 °C, 4 °C for less than seven days, frozen for greater than seven days.
Concentration	13.19 ng/ml

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Preservative 0.1% sodium azide

GENE INFORMATION

Gene Name TNFRSF11B tumor necrosis factor receptor superfamily, member 11b [Homo sapiens]

Official Symbol TNFRSF11B

Synonyms TNFRSF11B; tumor necrosis factor receptor superfamily, member 11b; OPG, osteoprotegerin; tumor necrosis factor receptor superfamily member 11B; OCIF; TR1; osteoprotegerin; osteoclastogenesis inhibitory factor; OPG; MGC29565;

Gene ID 4982

mRNA Refseq NM_002546

Protein Refseq NP_002537

MIM 602643

UniProt ID O00300

Chromosome Location 8q24

Pathway Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Monoamine Transport, organism-specific biosystem; Osteoblast Signaling, organism-specific biosystem; Osteoclast Signaling, organism-specific biosystem; Osteoclast differentiation, organism-specific biosystem; Osteoclast differentiation, conserved biosystem;

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Function

binding; cytokine activity; receptor activity;

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