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OPG Human, Hi-5

Osteoprotegerin Human Recombinant, Hi-5
GRF0290

Product Overview

Name	OPG Human, Hi-5

Description

Osteoprotegerin Human Recombinant, Hi-5

Accession (Primary)	O00300

Synonyms

TNFRSF11B, OPG, OCIF, Osteoclastogenesis inhibitory factor, Osteoprotegerin, TR1, MGC29565.

Introduction

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.

Source

Hi-5 .

Physical Appearance

Sterile Filtered colorless clear solution.

Formulation

Osteoprotegerin protein contains PBS pH-7.4 and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

ADPETFPPKY LHYDEETSHQ LLCDKCPPGT YLKQHCTAKW KTVCAPCPDH YYTDSWHTSD ECLYCSPVCK ELQYVKQECN RTHNRVCECK EGRYLEIEFC LKHRSCPPGF GVVQAGTPER NTVCKRCPDG FFSNETSSKA PCRKHTNCSV FGLLLTQKGN ATHDNICSGN SESTQKCGID VTLCEEAFFR FAVPTKFTPN WLSVLVDNLP GTKVNAESVE RIKRQHSSQE QTFQLLKLWK HQNKDQDIVK KIIQDIDLCE NSVQRHIGHA NLTFEQLRSL MESLPGKKVG AEDIEKTIKA CKPSDQILKL LSLWRIKNGD QDTLKGLMHA LKHSKTYHFP KTVTQSLKKT

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IRFLHSFTMY KLYQKLFLEM IGNQVQSVKI SCL SHHHHHH .

Biological Activity

The ED50 range ≤ 8 ng/ml and is measured by its ability to inhibit cytotoxicity using Jurkat human acute T cell leukemia cells in the presence of 2ng/ml of human TRAIL (CAT# cyt-1014).

Precautions

OPG Human, Hi-5 is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O00300)