
Product Data Sheet

Product Name: OPG Human, Hi-5

Cat. No.: GP20798

Batch No.: 1

Product Data

Purity	>98%	Source	Hi-5.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms TNFRSF11B; OPG; OCIF; Osteoclastogenesis inhibitory factor; Osteoprotegerin; TR1; MGC29565.

Amino Acid Sequence
 ADPETFPPKY LHYDEETSHQ LLCDKCPPGT YLKQHCTAKW KTVCAPCPDH
 YYTDSWHTSD ECLYCSPVCK ELQYVKQECN RTHNRVCECK EGRYLEIEFC
 LKHRSCPPGF GVVQAGTPER NTVCKRCPDG FFSNETSSKA PCRKHTNCSV
 FGLLLTQKGN ATHDNICSGN SESTQKCGID VTLCEEAFRR
 FAVPTKFTPNWLSVLVDNLP GTKVNAESVE RIKRQHSSQE QTFQLLKLWK
 HQNKDQDIVK KIIQDIDLCE NSVQRHIGHA NLTFEQLRSL MESLPGKKVG
 AEDIEKTIKACKPSDQILKL LSLWRKNGD QDTLKGLMHA LKHSKTYHFP
 KTVTQSLKKT IRFLHSFTMY KLYQKLFLEM IGNQVQSVKI SCLSGRLVPR
 GSHHHHHH.

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

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.

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.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Recombinant Osteoprotegerin produced in baculovirus is a single, glycosylated polypeptide chain containing 398 amino acid residues (22-401 a.a.), having a calculated molecular mass of 45.6 kDa. The Osteoprotegerin is fused to a 17 amino acid His tag at C-terminus and purified by proprietary chromatographic techniques.

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