



Osteoprotegerin, 22-401aa, Recombinant Human (OPG, Osteoclastogenesis Inhibitory Factor, OCIF)

Catalog number

O8065-01E

Supplier

United States Biological

Osteoprotegerin (OPG) is a member of the tumor necrosis factor (TNF)-related family, is referred to as TNFRSF11B and part of the OPG/receptor activator of NF- κ B ligand (RANKL)/receptor activator of NF- κ B (RANK) triad. This cytokine that lacks any apparent cell-association motifs and exists as a soluble secreted protein, network regulates the differentiation and activation of osteoclasts and hence the critical balance between bone formation (osteoblasts) and bone resorption (osteoclasts).

Recombinant human osteoprotegerin protein, fused to His-tag at C-terminus, was expressed in Hi-5 cell using baculovirus expression system and purified by using conventional chromatography techniques

Endotoxin Level

≤ 1.0 EU per 1 μ g of protein (LAL)

AA sequence

ADPETFPPKY LHYDEETSHQ LLCDKPPGT YLKQHCTAKW KTVCAPCPDH YYTDSWHTSD ECLYCSPVCK
ELQYVKQECN RTHNRVCECK EGRYLEIEFC
LKHRSCPPGF GVVQAGTPER NTVCKRCPDG FFSNETSSKA PCRKHTNCSV FGLLLTQKGN ATHDNICSGN
SESTQKCGID VTLCEEAFRR FAVPTKFTPN
WLSVLVDNLP GTKVNAESVE RIKRQHSSQE QTFQLLKLWK HQNKDQDIVK KIIQDIDLCE NSVQRHIGHA
NLTFEQLRSL MESLPGKKVG AEDIEKTIKA
CKPSDQILKL LSLWRIKNGD QDTLKGMLHA LKHSKTYHFP KTVTQSLKKT IRLHSFTMY KLYQKLFLEM
IGNQVQSVKI SCLSGRLVPR GSHHHHHH

Storage and Stability

Store at -20°C. Stable for at least 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

Formulation

Supplied as a liquid in PBS, pH 7.4, 10% glycerol.

Purity

≥ 85 % by SDS-PAGE

Grade

Highly Purified

Storage

-20°C



MW

45.6

Antigen Modification

Recombinant, Hi-5 cell

Reference

1. Lacey, D.L. et al. (1998) Cell 93:165-76 2. Yasuda H. et al. (1998) PNAS 95:3597-602 3. A. Van Campenhout, Golledge J. (2009) Atherosclerosis 204:321-29