9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

OPG Human, His

Osteoprotegerin Human Recombinant, His Tag
GRF0291

Product Overview

Name	OPG Human, His
Description	
Osteoprotegerin Human Recombinant, His Tag	
Accession (Primary)	O00300
Synonyms	
TNFRSF11B, OPG, OCIF, Osteoclastogenesis inhibitory factor, TR1, MGC29565.	
Introduction	
Osteoprotegerin, which is a member of the tumor necrosis factor receptor superfamily and is involved in the regulation of bone metabolism. OPGand its ligand (OPGL) are cytokines regulating osteoclasto-genesis. OPGL binds to receptors on the surface of preosteoclasts and stimulates their differentiation into active osteoclasts. This leads to osteoresorption. OPG inhibits this osteoclasto-genesis (OPG is secreted by osteoblasts, and binds to OPGL, thus inhibiting maturation of osteoclasts and osteoresorption). The degree and activity of osteoresorption depend mainly on the balance between OPG and its ligand (OPGL); factors increasing OPGL expression mostly reduce OPG expression and vice versa.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a concentrated (1mg/ml) solution with 1X PBS, 0.1% SDS and 1mM DTT.	
Stability	
Lyophilized Osteoprotegerin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution OCIF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 80.0% as determined by(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Solubility	
It is recommended to reconstitute the lyophilized Osteoprotegerin in sterile 18MΩ-cm H2O not less than 100 µg/ml,	

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

which can then be further diluted to other aqueous solutions.

Applications

1. Positive control for Western blot. 2. Antibody production. 3. Protein assay.

Precautions

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

Target Information: (O00300)