
Product Data Sheet

Product Name: OPG Human, HEK
 Cat. No.: GP20799
 Batch No.: 1

Product Data

Purity	>98%	Source
Physical Appearance	solid	Shipping Condition

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

Amino Acid Sequence PGDYKDDDDKPAGETFPPKYLHYDEETSHQLLCDKCPPGYLQKHCTAKWKTVCAPCPDHYTDSWHTSDECLYCSPVCKELQYVKQECNRTHNRVCI

Solubility It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized product reconstitute. The reconstituted solution can be filtered through a 0.45 µm filter. The formulation is OPG filtered (0.4 µm) and lyophilized from 0.5mg/ml solution in PBS, pH7.5 and 5% (w/v) Trehalose.

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 lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

OPG Human Recombinant is a single, glycosylated polypeptide chain containing 393 amino acids (22-401a.a) and having a molecular mass of 45.0kDa (calculated). OPG is fused to a 13 a.a FLAG- tag at N-terminal.

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
