



Placenta Growth Factor-2, human recombinant (rHuPLGF-2)

Catalog No: 87407
Lot No: XXXXX
Source: Insect cells
Synonyms: PIGF, PGF, PIGF-2, PLGF-2

Background

PLGF is a growth factor active in angiogenesis, and endothelial cell growth, stimulating their proliferation and migration. It binds to receptor vegfr-1/flt1. PLGF-2 binds neuropilin-1 and 2 in a heparin-dependent manner.

Description

Placenta Growth Factor-2 human recombinant produced in insect cells is a homodimer, glycosylated polypeptide chain containing 2 x 152 amino acids and having a total molecular mass of 44 kDa. PLGF-2 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a concentrated (1 mg/ml) solution containing BSA.

Solubility

It is recommended to reconstitute the lyophilized Placenta Growth Factor 2 in sterile 20 mM acetic acid not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Placenta Growth Factor-2, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution PLGF2 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 80.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Activity

PLGF-2 human recombinant can bind to immobilized rh-sFlt-1 (100 ng/well) with a linear range at 0.3 – 10 ng/ml.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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