Recombinant Human Placenta Growth Factor-2 (rh PLGF-2)

Synonyms: PGF-2

Introduction: 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: Recombinant human PLGF-1 produced in insect cells PLGF-2 binds neuropilin-1 and 2 in a heparin-dependent manner. The PLGF-2 is purified by proprietary chromatographic techniques.

Source: Insect Cells

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a concentrated solution containing BSA. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

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

Stability: Lyophilized rh PLGF-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh PLGF-2 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 RP-HPLC and by SDS-PAGE.

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

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