

Screening Libraries

Proteins





Product Data Sheet

PLGF Protein, Human

Cat. No.: HY-P74627

Synonyms: Placenta growth factor; PlGF; PGF; PGFL

Species: Human Source: E. coli

Accession: P49763-2 (L19-R149)

Gene ID: 5228

Molecular Weight: Approximately 14.9 kDa

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Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$ in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The PLGF-2 Protein, a growth factor with significant activity in angiogenesis and endothelial cell growth, plays a crucial role in stimulating the proliferation and migration of these cells. Through binding to the FLT1/VEGFR-1 receptor, PLGF-2 orchestrates angiogenic processes and contributes to the regulation of vascular growth. Notably, the isoform PIGF-2 exhibits additional binding capabilities, forming interactions with NRP1/neuropilin-1 and NRP2/neuropilin-2 in a heparindependent manner. Beyond its angiogenic functions, PLGF-2 also promotes tumor growth, implicating its involvement in pathological angiogenesis associated with cancer. Structurally, PLGF-2 exists as an antiparallel homodimer linked by disulfide bonds, and it can further manifest as a heterodimer with VEGFA/VEGF. The presence of isoform PIGF-3 as both a homodimer and monomer adds to the complexity of PLGF proteins, highlighting their diverse roles in modulating vascular processes and tumorigenesis.

Caution: Product has not been fully validated for medical applications. For research use only.

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