

PLGF Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70792
Synonyms:	Placenta growth factor; PlGF; Plgf; D12S1900; PGFL; PLGF; PlGF-2; SHGC-10760
Species:	Mouse
Source:	HEK293
Accession:	P49764 (V19-P158)
Gene ID:	18654
Molecular Weight:	27-30 kDa

PROPERTIES

AA Sequence	<p>V H S Q G A L S A G N N S T E V E V V P F N E V W G R S Y C R P M E K L V Y I L</p> <p>D E Y P D E V S H I F S P S C V L L S R C S G C C G D E G L H C V P I K T A N I</p> <p>T M Q I L K I P P N R D P H F Y V E M T F S Q D V L C E C R P I L E T T K A E R</p> <p>R K T K G K R K R S R N S Q T E E P H P</p>
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	<p>The PLGF Protein, a growth factor integral to angiogenesis and endothelial cell growth, exhibits stimulatory effects on both proliferation and migration of these cells. Functioning through its binding to the FLT1/VEGFR-1 receptor, PLGF plays a crucial role in orchestrating angiogenic processes. Additionally, it contributes to tumor growth, emphasizing its involvement in pathological angiogenesis. Structurally, PLGF exists as an antiparallel homodimer, connected by disulfide linkages. Furthermore, it can form heterodimers with VEGFA/VEGF, suggesting a dynamic role in the regulation of vascular growth and function. The multifaceted actions and structural arrangements of PLGF underscore its significance in modulating</p>
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vascular processes and tumor development.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA