PLGF Protein, Rhesus macaque (HEK293, His)

Cat. No.:	HY-P78688
Synonyms:	PGF; PLGF; PlGF2; PlGF; PGFL; SHGC-10760
Species:	Rhesus Macaque
Source:	HEK293
Accession:	F7HB10-1 (L19-R170)
Gene ID:	701219
Molecular Weight:	Approximately 28-32 kDa

PROPERTIES

AA Sequence	L P A V P P Q Q W A L S P G N G S S E V E V V P F Q E V W G R S Y C R A L E R L V D I V S E Y P S E V E H M F S P S C V S L L R C T G C C G D E N L H C V P V E T V N V T M Q L L K I R S G D R P S Y V E L T F S Q H V R C E C R P L R E K M K P E R R R P K G R G K R R R E K Q R P T D C H L C G D A V P R R
Biological Activity	Measured in a cell proliferation assay using MDA-MB-231 Human Breast Cancer Cells. The ED50 for this effect is 1.493 μg/mL, corresponding to a specific activity is 669.792 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	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 vascular processes and tumor development.

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