

PLGF/PGF Protein, Mouse, Recombinant

General Information

Synonyms:	placental growth factor;Plgf;PIGF;AI854365
Protein Construction:	A DNA sequence encoding the mouse PGF (P49764) (Met1-Pro158) was fused with five amino acids (DDDDK) at the C-terminus was expressed and purified. Predicted N terminal: Val 19
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P49764
Molecular Weight:	16.6 kDa (predicted); 28 kDa (reducing conditions)

QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized mouse PGF at 10 µg/mL (100ul/well) can bind human VEGFR1-His . The EC50 of human VEGFR1-His is 0.07-0.15 µg/mL.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Reference

Nagy JA, et al. (2003) VEGF-A(164/165) and PLGF: roles in angiogenesis and arteriogenesis. Trends Cardiovasc Med. 13(5): 169-75.

Chaballe L, et al. (2011) Placental growth factor: a tissue modelling factor with therapeutic potentials in neurology? Acta Neurol Belg. 111(1): 10-7.

Odorisio T, et al. (2006) The placental growth factor in skin angiogenesis. J Dermatol Sci. 41(1): 11-9.

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