

PLGF/PGF Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	Plgf;placental growth factor;PIGF;AI854365
Protein Construction:	A DNA sequence encoding the mouse PGF (P49764) (Met 1-Pro 158) was fused with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Val 19
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P49764
Molecular Weight:	42.9 kDa (predicted); 52 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 76 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m 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:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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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