Data Sheet (Cat.No.TMPY-00276)

TargetMol

PLGF-2/PGF Protein, Human, Recombinant (mFc)

General Information

Synonyms:	placental growth factor;D12S1900;PLGF;SHGC-10760;PGFL;PlGF-2
Protein Construction:	A DNA sequence encoding the human PGF (NP_002623.2) (Met1-Arg170) was expressed with the Fc region of mouse IgG1 at the C-terminus. Predicted N terminal: Leu 19
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P49763-3
Molecular Weight:	43.7 kDa (predicted)

QC Testing

Biological Activity:	1. Immobilized human PGF-mFc at 10 μg/mL (100 μL/well) can bind human VEGFR1-His . The EC50 of human VEGFR1-His is 0.19-0.43 μg/mL. 2. Labeled biotin to PLGF / PGF Protein, Human, Recombinant (Fc Tag) by a certain molar ratio; Using the Octet RED System, the affinity constant (Kd) of PLGF / PGF Protein, Human, Recombinant (Fc Tag), Biotinylated bound to Conbercept was 4.5 nM.
Purity:	> 95 % 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:

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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