Human PLGF / PGF (19-149) Protein, GST Tag

Catalog # PGF-H52G3

This product is still under development. Please contact us if you have interest in this product. We will accelerate the development process accordingly and reserve this product for you as request.

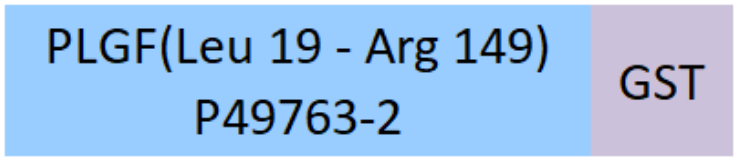
Synonym

PGF,PLGF,PlGF,PGFL,SHGC-10760

Source

Human PLGF (19-221), GST Tag (PGF-H52G3) is expressed from human 293 cells (HEK293). It contains AA Leu 19 - Arg 149 (Accession # P49763-2).
Predicted N-terminus: Leu 19

Molecular Characterization



This protein carries a GST tag at the C-terminus.

The protein has a calculated MW of 43.5 kDa.

Endotoxin

Formulation

Please contact us for detailed information.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Background

Placental growth factor (PGF) is also known as vascular endothelial growth factor-related protein, PLGF and PlGF2, is a member of the VEGF (vascular endothelial growth factor) sub-family - a key molecule in angiogenesis and vasculogenesis, in particular during embryogenesis. The main source of PGF during pregnancy is the placental trophoblast. PGF is also expressed in many other tissues, including the villous trophoblast. PGF is actived in angiogenesis and endothelial cell growth, stimulating their proliferation and migration. PlGF2 binds NRP1/neuropilin-1 and NRP2/neuropilin-2 in a heparin-dependent manner. Also promotes cell tumor growth.

References

(1) Maglione D., et al., 1993, Oncogene 8 (4): 925–31.
(2) Khalil A., et al., 2008, PLoS ONE 3 (7): e2766.
(3) Khurana R., et al., 2005, Circulation 111 (21): 2828–2836.
(4) Rolny C., et al., 2011, Cancer Cell 19:31-44.

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.