

Recombinant Human Placenta growth factor(PGF)

Catalog No: #AP70626

Package Size: #AP70626-1 20ug #AP70626-2 100ug #AP70626-3 1mg

Description

Product Name	Recombinant Human Placenta growth factor(PGF)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:19-170aaSequence Info:Full Length of Isoform PIGF-2
Accession No.	P49763
Calculated MW	33.3 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	LPVPPQQWALSAGNGSSEVEVVPFQEVWGRSYCRALERLVDVVSEYPSEVEHMFSPSCVSLLRCTGCCGD ENLHCVPVETANVTMQLLKIRSGDRPSYVELTFSQHVRCECRPLREKMKPERRRPKGRGKRRREKQRPTDC HLCGDAVPRR
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Growth factor active in angiogenesis and endothelial cell growth, stimulating their proliferation and migration. It binds to the receptor FLT1,VEGFR-1. Isoform PIGF-2 binds NRP1,neuropilin-1 and NRP2,neuropilin-2 in a heparin-dependent manner. Also promotes cell tumor growth.

References

HRG inhibits tumor growth and metastasis by inducing macrophage polarization and vessel normalization through downregulation of PIGF.Rolny C., Mazzone M., Tugues S., Laoui D., Johansson I., Coulon C., Squadrito M.L., Segura I., Li X., Knevels E., Costa S., Vinckier S., Dresselaer T., Akerud P., De Mol M., Salomaki H., Phillipson M., Wyns S. , Larsson E., Buysschaert I., Botling J., Himmelreich U., Van Ginderachter J.A., De Palma M., Dewerchin M., Claesson-Welsh L., Carmeliet P.Cancer Cell 19:31-44(2011) Research Topic:Cardiovascular

Note: This product is for in vitro research use only and is not intended for use in humans or animals.