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Product datasheet for TP728132M

PGF (19-149, His-Tag) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant human PlGF-1/PGF protein
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	LPAVPPQQWA LSAGNGSSEV EVVPFQEVWG RSYCRALERL VDVVSEYPSE VEHMFSPSCV SLLRCTGCCG DENLHCVPVE TANVTMQLLK IRSGDRPSYV ELTFSQHVRC ECRPLREKMK PERCGDAVPR R
Tag:	His-Tag
Predicted MW:	15.5kDa (137aa)
Concentration:	0.5mg/ml (determined by Bradford assay)
Purity:	> 90% by SDS-PAGE
Buffer:	Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Bioactivity:	Measured by its binding ability in a functional ELISA with Human VEGFR1/Flt-1 (CAT# ATGP4101).
Endotoxin:	< 1 EU per 1ug of protein (determined by LAL method)
Applications:	SDS-PAGE, Bioactivity
Storage:	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.
RefSeq:	NP_001193941.1
Summary:	Placenta growth factor (PlGF/PGF) is a member of the PDGF/VEGF-sub-family - a key molecule in angiogenesis and vasculogenesis, in particular during embryogenesis. There are three isoforms of this protein: PlGF-1, PlGF-2, PlGF-3. PlGF-2 is only found in early placenta up until the 8th week of development, while PlGF-1 is specifically found in the colon as well as mammary carcinomas. PlGF induces monocyte activation, migration, and production of inflammatory cytokines and VEGF. Also, PlGF is ultimately associated with angiogenesis. These activities facilitate wound, bone fracture, and cardiac repair, but also contribute to inflammation in active sickle cell disease and atherosclerosis. Recombinant human PlGF-1/PGF, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

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