

Recombinant Protein Technical Manual Recombinant Human MYDGF Protein (His Tag)

RPES2289

Product Data:

Product	SKU:	RPES2289
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Species: Human

Size: 10μg

Expression host: E. coli

Uniprot: Q969H8

Protein Information

Molecular Mass:	18.0 kDa
AP Molecular Mass:	17&25 kDa
Tag:	N-6His
Bio-activity:	
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from a 0.2 μ m filtered solution of 20mM PB,150mM NaCl,pH7.4.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	UPF0556 protein C19orf10; stromal cell-derived growth factor SF20;C19orf10;Myeloid-derived growth factor;MYDGF

Sequence: Ser33-Leu173

Background:

Myeloid-derived growth factor (MYDGF) is a secreted protein which belongs to the UPF0556 family. MYDGF was strongly expressed in spleen, prostate and lung, and weakly expressed in the left ventricle and liver. Bone marrow-derived monocyte and paracrine-acting protein promotes cardiac myocyte survival and adaptive angiogenesis for cardiac protection and/or repair after myocardial infarction (MI). MYDGF stimulates endothelial cell proliferation through a MAPK1/3-, STAT3- and CCND1-mediated signaling pathway. It inhibits cardiac myocyte apoptosis in a PI3K/AKT-dependent signaling pathway. MYDGF is involved in endothelial cell proliferation and angiogenesis. It may serve as a prototypical example for the development of protein-based therapies for ischemic tissue repair.