PRODUCT INFORMATION

Target	MYDGF
Synonyms	UPF0556 protein C19orf10;stromal cell-derived growth factor SF20;C19orf10;Myeloid-derived growth factor;MYDGF
Description	Recombinant Human Myeloid-derived Growth Factor is produced by our E.coli expression system and the target gene encoding Ser33-Leu173 is expressed with a 6His tag at the N-terminus.
Delivery	In Stock
Uniprot ID	Q969H8
Expression Host	E.coli
Tag	
Molecular Characterization	Not available
Molecular Weight	18 KDa
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Formulation & Reconstitution	Lyophilized from a 0.2 μm filtered solution of 4mM HCl.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 μm) prior to use.
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.
Usage	Research use only
Conjugate	Unconjugated

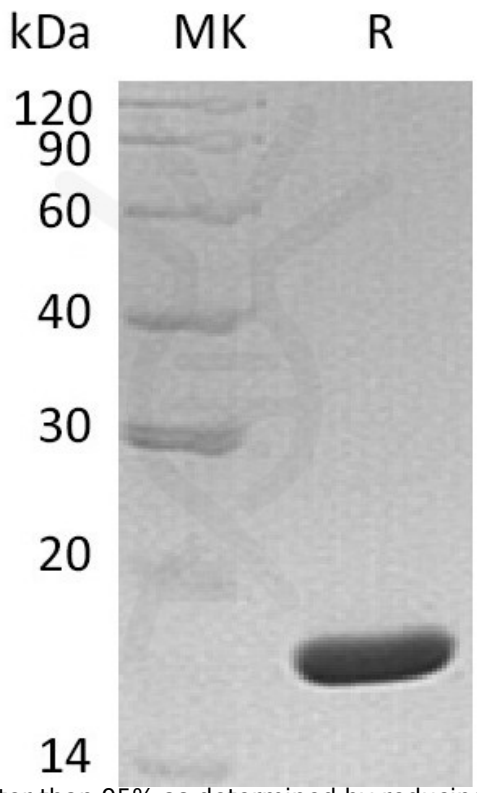

Figure 1. Greater than 95% as determined by reducing SDS-PAGE.