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## Datasheet for ABIN7455641 MYDGF Protein (His tag)

### Overview

Quantity:	50 µg
Target:	MYDGF (D17Wsu104e)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYDGF protein is labelled with His tag.

### Product Details

Purpose:	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.
Characteristics:	Extracellular Domain Protein
Purity:	Greater than 95 % as determined by reducing SDS-PAGE.

### Target Details

Target:	MYDGF (D17Wsu104e)
Alternative Name:	MYDGF ( <a href="#">D17Wsu104e Products</a> )
Background:	UPF0556 protein C19orf10, stromal cell-derived growth factor SF20, C19orf10, Myeloid-derived growth factor, MYDGFMyeloid-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

## Target Details

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.

Molecular Weight: 18 KDa

UniProt: [Q969H8](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Buffer: a 0.2 µm filtered solution of 4 mM HCl.

Storage: -20 °C

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 12 months