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## Product Data Sheet

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Product Name: MYDGF Mouse  
 Cat. No.: GP20758  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	D17Wsu104e; IL25; Ly6elg; MYDGF; Interleukin-25; IL-25; Stromal cell-derived growth factor SF20.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSVSEPTTV PFDVRPGGVV HSFSQDVGPG NKFTCTFTYA SQGGTNEQWQ MSLGTSEDSQ HFTCTIWRPQ GKSYLEFTQF KAELRGAEIE YAMAYSKAAF ERESDVPLKS EEFVTKTAV SHRPGAFKAE LSKLVIVAKA ARSEL.		
Formulation	MYDGF protein solution (0.5mg/ml) containing 20mM Tris-HCl (pH8.0), 0.1M NaCl and 10% glycerol.		

### Introduction

Myeloid-derived growth factor (MydGF) is a paracrine-acting protein and a bone marrow-derived monocyte which stimulates cardiac myocyte survival and adaptive angiogenesis for cardiac protection and repair after myocardial infarction. MydGF induces endothelial cell proliferation through a MAPK1/3-, STAT3- and CCND1-mediated signaling lane. When comparing wild-type mice to mice with a MydGF-deficiency, the later develop larger infarct scars and more acute contractile dysfunction.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

MYDGF Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 165 amino acids (25-166 a.a) and having a molecular mass of 18.1kDa. MYDGF is fused to a 23 amino acid His-tag at N-terminus & purified by

**Caution: Product has not been fully validated for medical applications. For research use only.**

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proprietary chromatographic techniques.

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