

SF20/MYDGF Protein, Human (HEK293, His)

Cat. No.:	HY-P700641
Synonyms:	Interleukin-25; IL-25; Interleukin-17E; IL-17E; SF20
Species:	Human
Source:	HEK293
Accession:	Q969H8 (V32-L173)
Gene ID:	56005
Molecular Weight:	Approximately 17.3 kDa

PROPERTIES

AA Sequence	<p>V S E P T T V A F D V R P G G V V H S F S H N V G P G D K Y T C M F T Y A S Q G</p> <p>G T N E Q W Q M S L G T S E D H Q H F T C T I W R P Q G K S Y L Y F T Q F K A E</p> <p>V R G A E I E Y A M A Y S K A A F E R E S D V P L K T E E F E V T K T A V A H R</p> <p>P G A F K A E L S K L V I V A K A S R T E L</p>
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant Human SF20/MYDGF is immobilized at 2 µg/mL, Recombinant Human P4HB binds with an ED ₅₀ of 2.292 µg/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>MYDGF Protein, a paracrine-acting protein derived from bone marrow monocytes, plays a crucial role in cardiac protection and repair following myocardial infarction (MI). Its multifaceted functions include the promotion of cardiac myocyte survival and the facilitation of adaptive angiogenesis. MYDGF stimulates endothelial cell proliferation through a signaling pathway involving MAPK1/3, STAT3, and CCND1. Additionally, it inhibits cardiac myocyte apoptosis through a PI3K/AKT-dependent signaling pathway. The protein's involvement in endothelial cell proliferation and angiogenesis underscores its significance</p>
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in mediating processes crucial for cardiac recovery and tissue repair, making it a potential therapeutic target for cardiovascular conditions.

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

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