HB20240711

Recombinant Mouse SF-20/IL-25 (Mouse SF-20/IL-25)

Product Information

Product Name	Cat#	Size
Recombinant Mouse SF-20/IL-25 (Mouse SF-20/IL-25)	90156ES05	2 μg
	90156ES10	10 μg
	90156ES50	50 μg
	90156ES60	100 μg
	90156ES76	500 μg

Product Description

SF-20, or MYDGF, is a Bone marrow-derived monocyte protein, and it is correlated with enhanced metabolic activity, suppression of apoptosis, and stimulation of cell proliferation. MYDGF is expressed predominantly in inflammatory cells, such as monocytes and macrophages. Up-regulation of MYDGF expression was also found during adipocyte differentiation. Expression of MYDGF was induced in the circulation and heart tissue after myocardial infarction. It promotes cardiac myocyte survival by stimulating endothelial cell proliferation through a MAPK1/3-, STAT3- and CCND1-mediated signaling pathway, and inhibits cardiac myocyte apoptosis in a PI3K/AKT-dependent signaling pathway. MYDGF was found over-expressed in approximately two-thirds of Hepatocellular Carcinoma (HCC) tissues, and its expression was significantly positively correlated with that of alpha-fetoprotein (AFP). In HCC, MYDGF could regulate cell proliferation through activating Akt/mitogen-activated protein kinase pathways. Mouse MYDGF shares 92% amino acid sequence identity with both human and rat MYDGF. Intriguingly, virtually all homologs of MYDGF have a C-terminal putative ER retention sequence BXEL (B: Arg, His, or Lys; X: variable residue; E: Glu; L: Leu), which has the potential to retain human MYDGF and its homologs in the ER, whereas truncated MYDGF without BXEL is secreted from the cell. However, the functions of these different forms remain unclear.

Product Properties

Synonyms	IL-17E, IL-25, MYDGF
Accession	Q9CPT4
GeneID	28106
Source	E.coli-derived Mouse SF-20/IL-25, Val25-Leu166, with an N-terminal Met.
Molecular Weight	Approximately 15.8 kDa.
AA Sequence	MVSEPTTVPF DVRPGGVVHS FSQDVGPGNK FTCTFTYASQ GGTNEQWQMS LGTSEDSQHF TCTIWRPQGK SYLYFTQFKA ELRGAEIEYA MAYSKAAFER ESDVPLKSEE FEVTKTAVSH RPGAFKAELS KLVIVAKAAR SEL
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Biological Activity	Data Not Available.
Endotoxin	< 1.0 EU per 1μg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further

dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20℃ to -80℃ for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!