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Datasheet for ABIN2018220 MIF Protein (AA 1-115)

Overview

Quantity:	50 µg
Target:	MIF
Protein Characteristics:	AA 1-115
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	MIF
Alternative Name:	Macrophage Migration Inhibitory Factor (MIF) (MIF Products)
Background:	Macrophage Migration Inhibitory Factor (MIF) is a pleiotropic cytokine, existing as a homotrimer in vivo. MIF was originally identified as a T cell derived factor responsible for the inhibition of macrophage migration. However, recently MIF has received much more attention because of its possible roles in angiogenesis and cancer development. MIF is over-expressed in various cancers, including pancreatic, breast, colon, brain, prostate, skin, and lung. The intratumoral expression of MIF is strongly correlated with angiogenic growth factor expression, such as the expression of Interleukin 8 (IL-8) and Vascular Endothelial Growth Factor (VEGF), and with risk of recurrence after resection. Recombinant human Macrophage Migration

Target Details

Inhibitory Factor (rhMIF) produced in E. coli is a single non-glycosylated polypeptide chain containing 115 amino acids. rhMIF has a molecular mass of 12.5 kDa analyzed by reducing SDS-PAGE.

Synonyms: Macrophage Migration, Inhibitory Factor, GLIF, MMIF, GIF, Glycosylation-inhibiting factor

Molecular Weight: 12.5 kDa, observed by reducing SDS-PAGE.

UniProt: [P14174](#)

Pathways: [Regulation of Systemic Arterial Blood Pressure by Hormones](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Regulation of Carbohydrate Metabolic Process](#), [Feeding Behaviour](#), [Smooth Muscle Cell Migration](#), [Negative Regulation of intrinsic apoptotic Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant human Macrophage Migration Inhibitory Factor (rhMIF) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhMIF remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months