

Overview

Synonyms	Macrophage Migration, Inhibitory Factor, GLIF, MMIF, GIF, Glycosylation-inhibiting factor
Description	Macrophage Migration Inhibitory Factor (MIF) is a pleiotropic cytokine, existing as a homotrimer <i>in vivo</i> . 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 Inhibitory Factor (rhMIF) produced in <i>E. coli</i> 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 and is obtained by proprietary chromatographic techniques.
Accession No	P14174
Species	Human
Source	<i>E. coli</i>
Sequence	MPMFIVNTNV PRASVPDGFL SELTQQLAQA TGKPPQYIAV HVVPDQLMAF GGSSEPCALC SLHSIGKIGG AQNRSYSKLL CGLLAERLRI SPDRVYINYY DMNAANVGWN NSTFA

Properties

Measured Molecular Weight	12.5 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/mL.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human Macrophage Migration Inhibitory Factor (rhMIF) remains stable up to 6 months at lower than -70°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.
Note	For research use only

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