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## Product Data Sheet

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Product Name: MIF T.Vaginalis

Cat. No.: GP20749

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Macrophage Migration Inhibitory Factor (Glycosylation-Inhibiting Factor); Phenylpyruvate Tautomerase; L-Dopachrome Tautomerase; L-Dopachrome Isomerase; GLIF; MMIF; GIF; Macrophage Migration Inhibitory Factor; Glycosylation-Inhibiting Factor; EC 5.3.3.12; EC 5.3.2.1; Macrophage migration inhibitory factor.		
Amino Acid Sequence	MPALVIKTNA KFTEEEKSKA TEELGNIVSK VLGKPISYVM VTLEDGVAVR FGGSDEKAAF MSLMSIGGLN RAVNKRASAA LTKWFTDHGF QGDRIYIVFN PKSAEDWGFN GDTFAHHHHH H.		
Solubility	It is recommended to add 200µl deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. MIF T.Vaginalis is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	MIF T.Vaginalis filtered (0.4 µm) and lyophilized from 0.5mg/ml solution in 20 mM Tris buffer and 50 mM NaCl, pH 7.5.		

**Introduction**

The cytokine Macrophage migration inhibitory factor (MIF) has been identified to be secreted by the pituitary gland and the monocyte/macrophage and to play an important role in endotoxic shock. MIF has the unique property of being released from macrophages and T cells in response to physiological concentrations of glucocorticoids. The secretion of MIF is tightly regulated and decreases at high, anti-inflammatory steroid concentration.

**Stability**

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid

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

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repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

### Background

MIF T.Vaginalis Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (a.a 1-115) containing 121 amino acids including a 6 a.a C-terminal His tag. The total molecular mass is 13.4kDa (calculated).

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