
Product Data Sheet

Product Name: MIF Rat
 Cat. No.: GP20748
 Batch No.: 1

Product Data

| | | | |
|---------------------|---|--------------------|-----------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped at Room temp. |
| Synonyms | Macrophage migration inhibitory factor; MIF; Glutathione-binding 13 kDa protein; L-dopachrome isomerase; L-dopachrome tautomerase; Phenylpyruvate tautomerase. | | |
| Amino Acid Sequence | MPMFIVNTNV PRASVPEGFL SELTQQLAQA TGKPAQYIAV HVVPDQLMTF SGTSDPCALC SLHSIGKIGG AQNRNYSKLL CGLLSDRHLHI SPDRVYINYY DMNAANVGWN GSTFA. | | |
| Solubility | It is recommended to reconstitute the lyophilized MIF in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions. | | |
| Formulation | Lyophilized from a 0.2μm filtered concentrated solution in 16 ^L PBS, pH 7.4 and 5% trehalose. | | |

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

Lyophilized MIF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution MIF should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a

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

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carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

MIF Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 115 amino acids and having a molecular mass of 12.5kDa. The MIF is purified by proprietary chromatographic techniques.

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