



# Recombinant Protein Technical Manual

## Recombinant Mouse MIF Protein (His Tag)

RPES2233

### Product Data:

**Product SKU:** RPES2233

**Size:** 10µg

**Species:** Mouse

**Expression host:** E. coli

**Uniprot:** P34884

### Protein Information:

**Molecular Mass:** 13.5 kDa

**AP Molecular Mass:** 104 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Macrophage migration inhibitory factor; Delayed early response protein 6; DER6; Glycosylation-inhibiting factor; GIF; L-dopachrome isomerase; L-dopachrome tautomerase; Phenylpyruvate tautomerase;

## Immunogen Information:

**Sequence:** Pro2-Ala115

## Background:

Macrophage migration inhibitory factor(MIF) is a secreted protein and belongs to the MIF family. MIF is an important regulator of innate immunity. The circulating MIF binds to CD74 on other immune cells to trigger an acute immune response. Hence MIF is classified as an inflammatory cytokine. Furthermore glucocorticoids also stimulate white blood cells to release MIF and hence MIF partially counter acts the inhibitory effects that glucocorticoids have on the immune system. Finally trauma activates the anterior pituitary gland to release MIF.