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Datasheet for ABIN1880602

MIF Protein (AA 2-115) (His tag)

Overview

Quantity:	50 µg
Target:	MIF
Protein Characteristics:	AA 2-115
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MIF protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Macrophage Migration Inhibitory Factor/MIF (C-6His)
Sequence:	PMFIVNTNVP RASVPEGFLS ELTQQLAQAT GKPAQYIAVH VVPDQLMTFS GTNDPCALCS LHSIGKIGGA QNRNYSKLLC GLLSDRLHIS PDRVYINYD MNAANVGWNG STFALEHHHH HH
Characteristics:	Recombinant Mouse Macrophage migration inhibitory factor/MIF is produced with our E. coli expression system. The target protein is expressed with sequence (Pro2-Ala115) of Mouse MIF fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	MIF
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Target Details

Alternative Name:	Macrophage Migration Inhibitory Factor/MIF (MIF Products)
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.
Molecular Weight:	13.5 kDa
UniProt:	P34884
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
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Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.