

Datasheet for ABIN7505008
MIF Protein (AA 2-115) (GST tag)



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Overview

Quantity:	100 µg
Target:	MIF
Protein Characteristics:	AA 2-115
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MIF protein is labelled with GST tag.

Product Details

Sequence:	Pro2-Ala115
Characteristics:	A DNA sequence encoding the Human MIF protein (P14174) (Pro2-Ala115) was expressed with a N-GST.
Purity:	> 90 % as determined by reducing SDS-PAGE.

Target Details

Target:	MIF
Alternative Name:	MIF (MIF Products)
Background:	<p>Abbreviation: MIF</p> <p>Target Synonym: Glycosylation-inhibiting factor, GIF, L-dopachrome isomerase, L-dopachrome tautomerase, Phenylpyruvate tautomerase</p> <p>Background: Macrophage migration inhibitory factor (MIF) is an immunoregulatory cytokine,</p>

Target Details

the effect of which on arresting random immune cell movement was recognized several decades ago. Despite its historic name, MIF also has a direct chemokine-like function and promotes cell recruitment. MIF is a ubiquitously expressed protein that plays a crucial role in many inflammatory and autoimmune disorders. Increasing evidence suggests that MIF also controls metabolic and inflammatory processes underlying the development of metabolic pathologies associated with obesity. Further research has shown that MIF plays a particularly critical part in cell cycle regulation and therefore in tumorigenesis as well. The significance of the role of MIF in a variety of both solid and hematologic tumors has been established. More recently, interest has increased in the role of MIF in the development of the central nervous system (CNS) tumors, in which it appears to influence cell cycle control. MIF contributes to malignant disease progression on several different levels. Both circulating and intracellular MIF protein levels are elevated in cancer patients and MIF expression reportedly correlates with stage, metastatic spread, and disease-free survival. Blockade of MIF bioactivity successfully inhibited tumor cell growth in vivo and in vitro. MIF plays important role in the pathogenesis of gastrointestinal, hepatic, and pancreatic disorders.

Molecular Weight:	Calculated MW: 38.3 kDa Observed MW: 38 kDa
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UniProt:	P14174
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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
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
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Storage:	4 °C,-20 °C,-80 °C
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Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
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Handling

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.

Expiry Date: 12 months