

Product datasheet

Recombinant mouse MIF protein (Animal Free) ab207989

[1 Image](#)

Description

Product name	Recombinant mouse MIF protein (Animal Free)
Biological activity	Biological Activity: The activity is determined by its ability to activate MAP Kinase signaling (via ERK) and is detectable starting at 10 ng/mL. This corresponds to an expected specific activity of 1×10^5 units/mg.
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 0.050 Eu/ μ g
Expression system	Escherichia coli
Accession	<u>P34884</u>
Protein length	Full length protein
Animal free	Yes
Nature	Recombinant
Species	Mouse
Sequence	MPMFIVNTNV PRASVPEGFL SELTQQLAQA TGKPAQYIAV HVVPDQLMTF SGTNDPCALC SLHSIGKIGG AQNRNYSKLL CGLLSDRHLHI SPDRVYINYY DMNAANVGWN GSTFA
Predicted molecular weight	13 kDa
Amino acids	1 to 115

Specifications

Our **Abpromise guarantee** covers the use of **ab207989** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Lyophilized

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Constituent: 0.16% Sodium phosphate

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

Sterile water at 0.1 mg/mL Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. The product works best when used fresh after reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 °C and avoid repeat freeze thaws.

General Info

Function

Pro-inflammatory cytokine. Involved in the innate immune response to bacterial pathogens. The expression of MIF at sites of inflammation suggests a role as mediator in regulating the function of macrophages in host defense. Counteracts the anti-inflammatory activity of glucocorticoids. Has phenylpyruvate tautomerase and dopachrome tautomerase activity (in vitro), but the physiological substrate is not known. It is not clear whether the tautomerase activity has any physiological relevance, and whether it is important for cytokine activity.

Involvement in disease

Genetic variations in MIF are associated with susceptibility to rheumatoid arthritis systemic juvenile (RASJ) [MIM:604302]. An inflammatory articular disorder with systemic-onset beginning before the age of 16. It represents a subgroup of juvenile arthritis associated with severe extraarticular features and occasionally fatal complications. During active phases of the disorder, patients display a typical daily spiking fever, an evanescent macular rash, lymphadenopathy, hepatosplenomegaly, serositis, myalgia and arthritis.

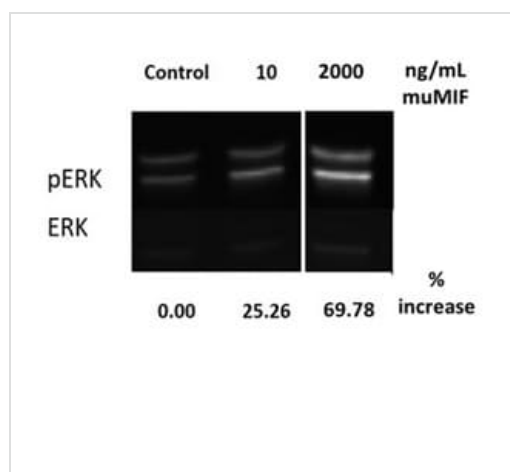
Sequence similarities

Belongs to the MIF family.

Cellular localization

Secreted. Cytoplasm. Does not have a cleavable signal sequence and is secreted via a specialized, non-classical pathway. Secreted by macrophages upon stimulation by bacterial lipopolysaccharide (LPS), or by M.tuberculosis antigens.

Images



Active mouse MIF induced P-ERK in Raw 264.7 cells.

Functional Studies - Recombinant mouse MIF protein (Animal Free) (ab207989)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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