# antibodies -online.com





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



## Image



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rystallization (Crys)
QYIAVH VVPDQLMAFG GSSEPCALCS
NYYD MNAANVGWNN STFA
retion of the manufacturer. If you have a
by highly experienced protein experts.  multi-step, protein-specific process to gn (Gene synthesis).
made for the first time for your order. Our
rrectly folded protein.
proteins in comparison to ordering custom
is no financial obligation in case the protein

cannot be expressed or purified.

specific reference buffer.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

#### Purification:

Two step purification of proteins expressed in bacterial culture:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

#### Target Details

Target:	MIF	
Alternative Name:	MIF (MIF Products)	
Background:	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	

### **Target Details**

Expiry Date:

Target Details	
	activity has any physiological relevance, and whether it is important for cytokine activity. {ECO:0000269 PubMed:15908412, ECO:0000269 PubMed:17443469, ECO:0000269 PubMed:23776208}.
Molecular Weight:	13.3 kDa Including tag.
UniProt:	P14174
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	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
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Unlimited (if stored properly)



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process