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HMGB1 Protein (AA 2-89)



Overview

Quantity:	50 μg
Target:	HMGB1
Protein Characteristics:	AA 2-89
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Product Details	

Purpose:	Recombinant Human High Mobility Group Protein B1/HMGB1	
Sequence:	GKGDPKKPRG KMSSYAFFVQ TCREEHKKKH PDASVNFSEF SKKCSERWKT MSAKEKGKFE DMAKADKARY EREMKTYIPP KGETKKKF	
Characteristics:	Recombinant Human High Mobility Group Protein B1/HMGB1/B0XA is produced by our E. coli expression system. The target protein is expressed with sequence (G2-F89) of Human HMBG1.	
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:	HMGB1
Alternative Name:	High Mobility Group Protein B1/HMGB1 (HMGB1 Products)

Target Details

Background:	HMGB1 belo
	a DNA bindir
	nuclear prote
	DNA, which
	genes in inte
	nacked DNA

HMGB1 belongs to the HMGB family and contains 2 HMG box DNA-binding domains. HMGB1 is a DNA binding proteins that associates with chromatin and has the ability to bend DNA. This nuclear protein organizes the DNA and regulates transcription. After binding HMGB1 bends the DNA, which conducts to the binding of other proteins. HMGB1 suports transcription of many genes in interactions with many transcription factors or cooperation nucleosoms looses packed DNA and increases the chromatin remodeling, contact with core histones changes the structure of nucleosoms. It involved in V(D)J recombination by acting as a cofactor of the RAG complex. The presence of HMGB1 in the nucleus depends on posttranslational modifications. When the protein is not acetylated, stays in the nucleus, but hyperacetylation on lysine residues occurs to translocation into the cytosol.

Synonyms: High-mobility group protein B1, high-mobility group protein 1, HMG-1, amphoterin

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Molecular Weight:

10.5 kDa

UniProt:

P09429

Pathways:

p53 Signaling, Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development,
Positive Regulation of Endopeptidase Activity, Regulation of Carbohydrate Metabolic Process,
Toll-Like Receptors Cascades, Smooth Muscle Cell Migration, Inflammasome

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized	
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$.	
	Dissolve the lyophilized protein in ddH2O.	
	Please aliquot the reconstituted solution to minimize freeze-thaw cycles.	
Buffer:	Lyophilized from a 0.2 μ m filtered solution of 50 mMHepes,500 mMNaCl,0.5 mMDTT, pH 7.9 .	
Preservative:	Dithiothreitol (DTT)	
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE	
	which should be handled by trained staff only.	
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.	
Storage:	4 °C/-20 °C/-80 °C	

Handling

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.