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Datasheet for ABIN1096828

**HMGB1 Protein (AA 2-215) (His tag)**

## Overview

Quantity:	50 µg
Target:	HMGB1
Protein Characteristics:	AA 2-215
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HMGB1 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human High Mobility Group Protein B1/HMGB1 (C-6His)
Sequence:	GKGDPKKPRG KMSSYAFFVQ TCREEHKKKH PDASVNFSEF SKKCSERWKT MSAKEKGKFE DMAKADKARY EREMPTYIPP KGETKKKFKD PNAPKRPPSA FFLFCSEYRP KIKGEHPGLS IGDVAKKLGE MWNNTAADDK QPYEKKAAL KEKYEKDIAA YRAKGKPDAA KKGVVKAES KKKKEEEEDE EDEEEEEEEE DEEDEDEEED DDDEVDDHHH HH
Characteristics:	Recombinant Human High Mobility Group Protein B1/HMGB1 is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (G2-E215) of Human HMBG1 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:	HMGB1
Alternative Name:	High Mobility Group Protein B1/HMGB1 ( <a href="#">HMGB1 Products</a> )
Sub Type:	Fusionprotein
Background:	<p>High mobility group protein B1 is a member of the HMGB family consisting of three members, HMGB1, HMGB2 and HMGB3. It contains 2 HMG box DNA-binding domains entitled box A and box B and it is a highly negative-charged C terminus. As a nuclear protein, HMGB1 stabilizes nucleosomes and allows bending of DNA that facilitates gene transcription which is essential for individual survival. Meanwhile, it is revealed that HMGB1 can also act as a cytokine extracellularly and regulates monocyte, T cell, dendritic cell activities in inflammatory responses.</p> <p>Synonyms: High Mobility Group Protein B1, High Mobility Group Protein 1, HMG-1, HMGB1, HMG1</p>
Molecular Weight:	25.93 kDa
UniProt:	<a href="#">P09429</a>
Pathways:	<a href="#">p53 Signaling</a> , <a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Regulation of Carbohydrate Metabolic Process</a> , <a href="#">Toll-Like Receptors Cascades</a> , <a href="#">Smooth Muscle Cell Migration</a> , <a href="#">Inflammasome</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 1 mM EDTA, 1 mM DTT, 10 % Glycerol, pH 7.4.
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

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Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
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Storage:	-80 °C
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Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
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Expiry Date:	6 months
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