

Datasheet for ABIN7566165

**HMGB1 Protein (AA 24-215) (His tag)**[Go to Product page](#)

## Overview

Quantity:	25 µg
Target:	HMGB1
Protein Characteristics:	AA 24-215
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HMGB1 protein is labelled with His tag.

## Product Details

Purpose:	HMGB1 (rat) (rec.) (His)
Cross-Reactivity:	Rat
Characteristics:	Rat HMGB1 (aa 24-215) is fused at the N-terminus to a His-tag.
Purity:	>90 % (SDS-PAGE)
Endotoxin Level:	<1EU/mg protein (LAL test, Lonza).

## Target Details

Target:	HMGB1
Alternative Name:	HMGB1 ( <a href="#">HMGB1 Products</a> )
Background:	High Mobility Group Protein B1 HMGB1 was originally discovered as an essential DNA-binding protein for regulating p53, NF-

## Target Details

kappaB and other important proteins. It is secreted from activated dendritic cells, macrophage and necrotic cells, and acts as a ligand for RAGE, TLR-2 and TLR-4 expressed on surrounding cells. As a result, HMGB1 activates Rac, CDC42 and NF-kappaB inducing localized innate immunity of damaged tissue, tissue regeneration by recruitment of stem cells and hemostasis by induction of tissue factor expression. HMGB1 is also causative agent of various diseases as it causes localized inflammation such as arteriosclerosis, chronic rheumatoid arthritis and nephritis.

Molecular Weight: ~25-35kDa

NCBI Accession: [NP\\_037095](#)

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

Buffer: Lyophilized from a concentrated sterile solution containing 50 mM Tris-HCl buffer (pH 8.0) and 100 mM NaCl.

Handling Advice: Avoid freeze/thaw cycles. Centrifuge lyophilized vial before opening and reconstitution.

Storage: 4 °C, -20 °C

Storage Comment: Short Term Storage: +4°C

Long Term Storage: -20°C

Use & Stability: Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.