

# Active Recombinant Human HMGB1 Protein (Met1-Asp169, C23A, C45A, C106A), N-His-SUMO tagged, Animal-free, Carrier-free

Cat. No. HMGB1-144H    Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human HMGB1 Protein (Met1-Asp169, C23A, C45A, C106A) with N-His-SUMO tag was expressed in HEK293 and Animal-free as well as Carrier-free.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Met1-Asp169
<b>Description</b>	<p>High Mobility Group protein B1 protein (HMGB1) is the high mobility group box family of non-histone chromosomal proteins. Human HMGB1 is expressed as a 25 kDa single chain polypeptide containing three domains: two N-terminal HMG boxes A and B, and a negatively charged 30 a.a. C-terminal region that contains only Asp and Glu. Post-translational modification on HMGB1 have been reported, affect its localization, receptor interactions, and function. HMGB1, with a disulfide bond between C23 and C45, have been reported that cause cytokine production and the activation of NF-κB. Otherwise, the fully oxidized form has no immune function, losing its proinflammatory effect and the apoptotic cell death activation function. Here, we developed HMGB1 C23A, C45A &amp; 106A mutant proteins, the fully oxidized HMGB1, eliminant the disulfide bond formation.</p>
<b>Form</b>	Lyophilized

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<b>Bio-activity</b>	Measure by its ability to induce TNF alpha in RAW264.7 cells. The ED50 for this effect is < 10 µg/mL.
<b>Molecular Mass</b>	The protein has a calculated MW of 36.33 kDa. The protein migrates as 35-48 kDa under reducing condition (SDS-PAGE analysis).
<b>Endotoxin</b>	< 0.1 EU/µg of the protein by the LAL method.
<b>Purity</b>	>98% as determined by SDS-PAGE analysis.
<b>Storage</b>	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

## GENE INFORMATION

<b>Gene Name</b>	HMGB1 high mobility group box 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	HMGB1
<b>Synonyms</b>	HMGB1; high mobility group box 1; high mobility group (nonhistone chromosomal)

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protein 1 , high mobility group box 1 , HMG1; high mobility group protein B1; Amphoterin; DKFZp686A04236; high mobility group protein 1; HMG3; SBP 1; Sulfoglucuronyl carbohydrate binding protein; HMG-1; high-mobility group box 1; high-mobility group (nonhistone chromosomal) protein 1; HMG1; SBP-1;

**Gene ID** [3146](#)

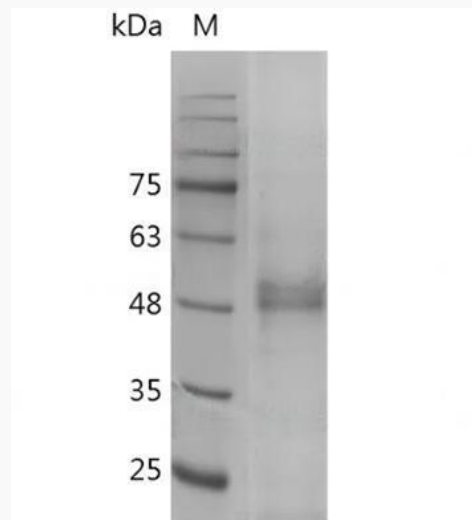
**mRNA Refseq** [NM\\_002128](#)

**Protein Refseq** [NP\\_002119](#)

**MIM** [163905](#)

**UniProt ID** [P09429](#)

**SDS-PAGE analysis  
of recombinant  
human HMGB1  
C23AC45AC106A.**



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