

# Active Recombinant Mouse Hmgb1 Protein (Met1-Asp169), C-His tagged, Animal-free, Carrier-free

**Cat. No.** Hmgb1-37M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Hmgb1 Protein (Met1-Asp169) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	Met1-Asp169
<b>Description</b>	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, affects 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.
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	Measure by its ability to induce TNF alpha in RAW264.7 cells. The ED50 for this effect is < 15 ng/mL.

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<b>Molecular Mass</b>	The protein has a calculated MW of 25.56 kDa. The protein migrates as 25-35 kDa under reducing condition (SDS-PAGE analysis).
<b>Endotoxin</b>	< 0.1 EU/μg of the protein by the LAL method.
<b>Purity</b>	>95% 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 H <sub>2</sub> O 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 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Hmgb1
<b>Synonyms</b>	HMGB1; high mobility group box 1; high mobility group protein B1; high mobility group protein 1; DEF; p30; Hmg1; HMG-1; SBP-1; amphoterin; MGC103168; MGC103169; MGC117896; MGC117897;

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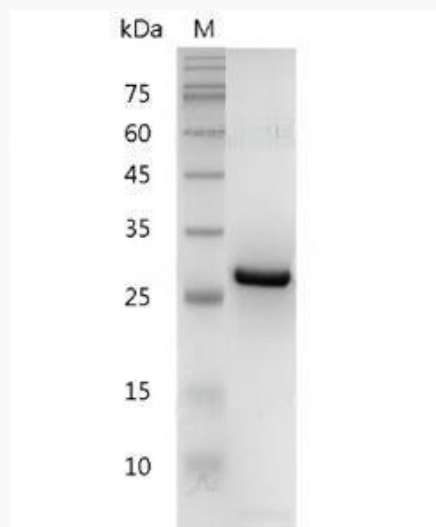
**Gene ID** 15289

**mRNA Refseq** NM\_010439

**Protein Refseq** NP\_034569

**UniProt ID** P63158

**SDS-PAGE analysis  
of recombinant  
mouse HMGB1.**



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