# Human HMGB1 (C23A, C45A), His-SUMO Tag, HEK293

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|---|---|
| **Catalog Number** | LDG002PHM |
| **Package** | 5 μg / 20 μg / 100 μg / Customized package |

For full product information, images and publications, please visit our website.

## Specifications

**Species of Origin**
Human

**Expression system**
HEK293

**Affinity Tag**
His-SUMO Tag (N-term)

**Buffer**
Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

**Purity**
>98% as determined by SDS-PAGE analysis.

**Molecular weight**
The protein has a calculated MW of 36.36 kDa. The protein migrates as 35-48 kDa under reducing condition (SDS-PAGE analysis).

**Activity**
Measure by its ability to induce TNF alpha in RAW264.7 cells. The $ED_{50}$ for this effect is <10 μg/mL.

**Endotoxin level**
<0.1 EU per 1 μg of the protein by the LAL method.

**Form**
Lyophilized

## Background

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### Background

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. Therefore, we developed the HMGB1 C23A& C45A mutant proteins, eliminant the disulfide bond formation.

### Synonyms

High mobility group protein B1, High mobility group protein 1, HMG-1

### Uniprot ID

#P09429

### Sequence Note

Met1-Asp169

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile $H_2O$ to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

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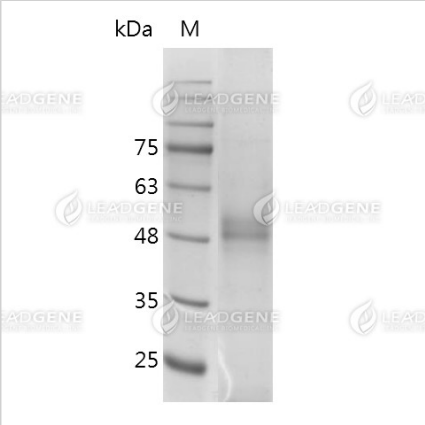
### Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

## Image




SDS-PAGE analysis of recombinant human HMGB1 C23AC45A.

**Disclaimer :** For Research Use or Further Manufacturing Only.

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