

Recombinant Mouse Hmgb1 protein, His-tagged

Cat. No. Hmgb1-6947M Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Mouse Hmgb1 (Met1-Glu215) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293). |
| Species | Mouse |
| Source | HEK293 |
| ProteinLength | Met1-Glu215 |
| Description | High-mobility group protein B1 (HMGB1) is also known as high-mobility group protein 1 (HMG-1) and amphoterin, is a member of the HMGB family consisting of three members, HMGB1, HMGB2 and HMGB3. HMGB1 is a non-histone architectural chromosomal protein ubiquitously present in all vertebrate nuclei and binds double-stranded DNA without sequence specificity. The mechanism of inflammation and damage is binding to TLR4, which mediates HMGB1-dependent activation of macrophage cytokine release. This positions HMGB1 at the intersection of sterile and infectious inflammatory responses. HMGB1 has been studied as a DNA vaccine adjuvant and a target for cancer therapy. |
| Predicted N Terminal | Met1 |
| Form | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose. |
| Molecular Mass | The protein has a calculated MW of 26.8 kDa. The protein migrates as 33 kDa and 35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |

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|-----------------------|---|
| Endotoxin | Less than 1.0 EU per µg by the LAL method. |
| Purity | >90% as determined by SDS-PAGE. |
| Storage | <p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.</p> |
| Reconstitution | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |

GENE INFORMATION

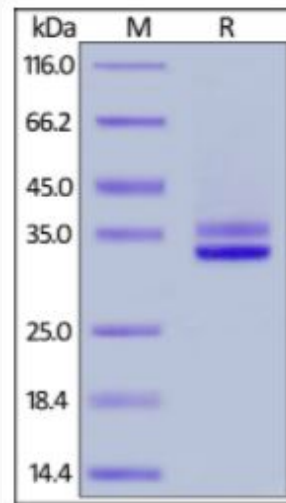
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|------------------------|---|
| Gene Name | Hmgb1 |
| Official Symbol | Hmgb1 |
| Synonyms | HMGB1; high mobility group box 1; high mobility group protein B1; high mobility group protein 1; DEF; p30; Hmg1; HMG-1; SBP-1; amphoterin; MGC103168; MGC103169; MGC117896; MGC117897 |
| Gene ID | 15289 |
| mRNA Refseq | NM_010439 |
| Protein Refseq | NP_034569 |
| UniProt ID | P63158 |

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**SDS-PAGE of
Hmgb1-6947M**



Mouse HMGB1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

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