

**Catalog No.: RP01545** **Recombinant**

Species	Gene ID	Swiss Prot
Mouse	15289	P63158

**Synonyms**  
HMG-1:HMG1:HMG3:SBP-1:HMGB1

<b>Source</b>	<b>Purification</b>
HEK293 cells	≥ 95 % as determined by SDS-PAGE

Calculated MW	Observed MW
25.74 kDa	30-40 kDa

< 1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22  $\mu\text{m}$  filtered solution of PBS, pH 7.4.

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

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High-mobility group box 1 protein (HMGB1), also known as HMG-1 or amphoterin previously, is a member of the HMGB family consisting of three members, HMGB1, HMGB2 and HMGB3. Posttranslational modification of HMGB1, including acetylation, phosphorylation, and methylation, affects HMGB1 localization, receptor interactions, and bioactivity. HMGB1 can be localized to the nucleus or cytoplasm and can also be secreted despite its lack of a signal peptide. HMGB1 binds DNA in a non-sequence specific manner and may act as a structural cofactor during gene transcription. Acetylation of HMGB1 results in its cytoplasmic localization and eventual secretion. HMGB1 can be secreted by multiple cell types, and it is also released upon cell necrosis, apoptosis, and pyroptosis.

Recombinant Mouse HMGB1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Glu215) of mouse HMGB1 (Accession #NP\_001300823.1) fused with a 6xHis tag at the C-terminus.

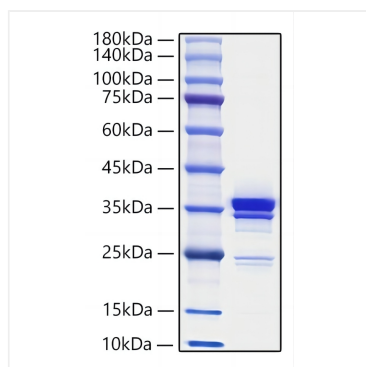
Measured by its binding ability in a functional ELISA. Immobilized mouse HMGB1 at 2 µg/ml (100 µl/well) can bind human AGER/RAGE(Catalog: RP00154) with a linear range of 0.25-91.96 ng/mL.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

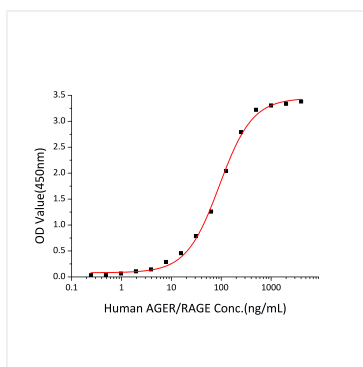
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.  
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.  
Avoid repeated freeze/thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Validation Data



Recombinant Mouse HMGB1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized mouse HMGB1 at 2  $\mu\text{g/ml}$  (100  $\mu\text{l/well}$ ) can bind human AGER/RAGE(Catalog: RP00154) with a linear range of 0.25-91.96 ng/mL.