

## Recombinant Mouse HMGB1 Protein

RPCB1103

### Protein Information

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<b>Size:</b>	10 µg , 20 µg , 50 µg , 100 µg	<b>Tag:</b>	C-His
<b>Reactivity:</b>	Mouse	<b>Expressed Host:</b>	HEK293 cells
<b>Calculated MW:</b>	25.74 kDa	<b>Observed MW:</b>	30-40 kDa

### Background

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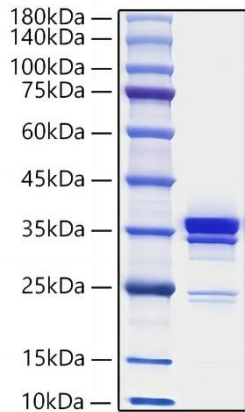
High-mobility group box 1 protein (HMGB1), also known as HMG-1 or amphoterin previously, is a member of the HMGB family consisting of three members, HMGB1, HMGB2 and HMGB3. Posttranslational modification of HMGB1, including acetylation, phosphorylation, and methylation, affects HMGB1 localization, receptor 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.

### Properties

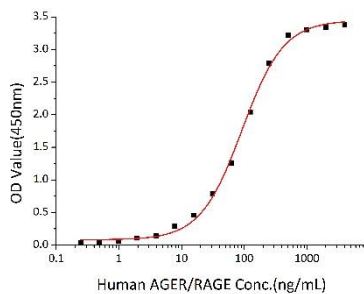
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<b>Synonyms:</b>	HMG-1, HMG1, HMG3, SBP-1, HMGB1
<b>Gene ID:</b>	15289
<b>Endotoxin:</b>	< 1 EU/µg of the protein by LAL method.
<b>Description:</b>	High quality, high purity and low endotoxin recombinant Recombinant Mouse HMGB1 Protein (RPCB1103), tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.
<b>Purity:</b>	≥ 95 % as determined by SDS-PAGE.
<b>Storage:</b>	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.

## 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(RPCB0249) with a linear range of 0.25-91.96 ng/mL.