Recombinant Mouse HMGB1 Protein

Catalog No.: RP01545

Sequence Information

Species
Mouse

Gene ID
15289

Swiss Prot
P63158

Tags
C-His

Synonyms
HMG-1,HMG1,HMG3,SBP-1, HMGB1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
25.74 kDa

Observed MW
30-40 kDa

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

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

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.

Basic Information

Description
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 6×His tag at the C-terminus.

Activity
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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

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

Contact

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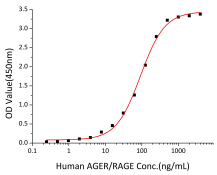
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



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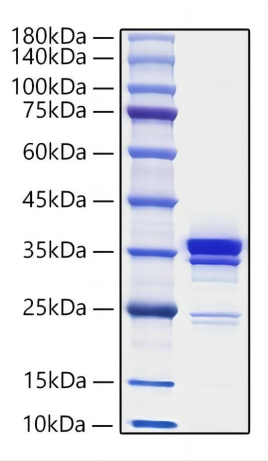

Recombinant Mouse HMGB1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.