RP00010

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Recombinant Human HMGB1 Protein

Catalog No.: RP00010 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	3146	P09429

Tags
C-His

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

Product Information

Source
HEK293 cells

Purification
> 97% by SDS-PAGE.

Endotoxin
< 1.0 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex 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.

Contact

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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.

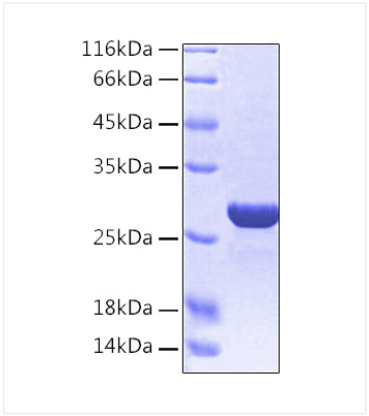
Basic Information

Description
Recombinant Human HMGB1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Glu215) of human HMGB1 (Accession #NP_002119.1) fused with a 6×His tag at the C-terminus.

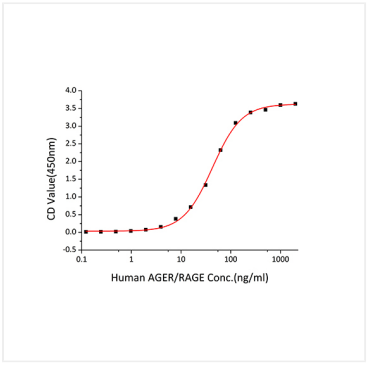
Bio-Activity
Measured by its binding ability in a functional ELISA. Immobilized Human HMGB1 (Cat: RP) at 2μg/mL (100 μL/well) can bind Human AGER/RAGE (Cat: RP00154) with a linear range of 0.1-42.8 ng/mL.

Storage
Store the lyophilized protein at -20°C to -80 °C for long term.
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.

Validation Data



Active Recombinant Human HMGB1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at approximately 30 kDa.



Immobilized Human HMGB1 (Cat: RP00010) at 2μg/mL (100 μL/well) can bind Human AGER/RAGE (Cat: RP00154) with a linear range of 0.1-42.8 ng/mL.