

Recombinant Human HMGB1 Protein

Catalog No.: RP00010

Sequence Information

Species **Gene ID**
Human 3146

Swiss Prot **Tags**
P09429 C-His

Synonyms

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

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as determined by SDS-PAGE.

Calculated MW **Observed MW**
25.74 kDa 30 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. 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 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 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 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.

Activity

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

Operational Notes

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

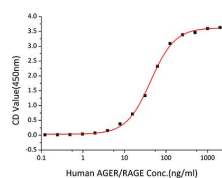
Contact

☎ | 400-999-6126

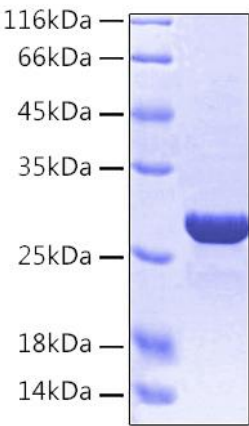
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Validation Data



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.



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