

Recombinant Human HMGB1 protein

Cat. No. HMGB1-26H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HMGB1 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	223
Description	Human High-mobility group box 1 protein (HMGB1), previously known as HMG-1 or amphoterin, is a member of the high mobility group box family of non-histone chromosomal proteins. Human HMGB1 is expressed as a 30 kDa, 215 amino acid (a.a.) single chain polypeptide containing three domains: two N-terminal globular, 70 a.a. positively charged DNA-binding domains (HMG boxes A and B), and a negatively charged 30 a.a. C-terminal region that contains only Asp and Glu. 4, 5 Residues 27-43 and 178-184 contain a NLS. Posttranslational modifications of the molecule have been reported, with acetylation occurring on as many as 17 lysine residues. HMGB1 is expressed at high levels in almost all cells. It was originally discovered as a nuclear protein that could bend DNA. Such bending stabilizes nucleosome formation and regulates the expression of select genes upon recruitment by DNA binding proteins.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
Molecular Mass	Approximately 26.0 kDa, a single non-glycosylated polypeptide chain containing 223 amino acids with 6 × His at C-terminus.

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AA Sequence	MGKGDPPKKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSA KEKGKFEDMAKADKARYEREMKTYIPPKGETKKKFKDPNAPKRPPSAFFLFCSEYR PKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPYEKKAACLKEKYEKDIAAYRAKGK PDAAKKGVVKAEEKSKKKKEEEDEEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDDDDDELEHHHHH H
Endotoxin	Less than 1 EU/μg of rHuHMGB1, His as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	HMGB1
Official Symbol	HMGB1
Synonyms	HMGB1; high mobility group box 1; high mobility group (nonhistone chromosomal) protein 1 , high mobility group box 1 , HMG1; high mobility group protein B1; Amphoterin; DKFZp686A04236; high mobility group protein 1; HMG3; SBP 1; Sulfoglucuronyl carbohydrate binding protein; HMG-1; high-mobility group box 1;

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high-mobility group (nonhistone chromosomal) protein 1; HMG1; SBP-1;

Gene ID 3146

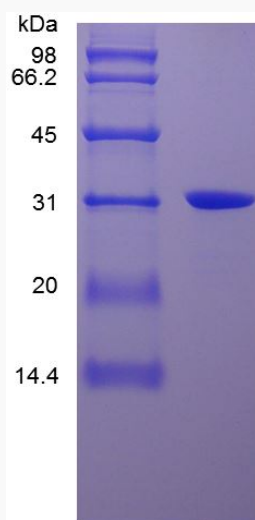
mRNA Refseq NM_002128

Protein Refseq NP_002119

MIM 163905

UniProt ID P09429

**SDS-PAGE of
HMGB1-26H**



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