

Recombinant Human High-Mobility Group Box 1, His (rHuHMGB1, His)

PrimeGene Technical DataSheet

Catalog Number:	601-06G
Source:	<i>Escherichia coli</i>
Molecular Weight:	Approximately 25.72 kDa, a single non-glycosylated polypeptide chain containing 221 amino acids with 6 × His at C-terminus.
Size:	10µg/ 100µg/ 500µg/ 1mg
AA Sequence:	MGKGDPPKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSAKEKGGKF EDMAKADKARYEREMKTYIPPKGETKKKFKDPNAPKRPPSAFFLFCSEYRPKIKGEHPGLSIG DVAKKLGEMWNNTAADDKQPYEKKA AKLKEKYEKDIAAYRAKGGKPDAAKKGVVKA EKS KKKKEEEEDEEDEEEEEDEEDEDEEEDDDDEHHHHHHH
Purity:	≥ 90% by SDS-PAGE analysis.
Biological Activity:	Test in Process.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, 8% Trehalose, pH7.0.
Endotoxin:	Less than 1 EU/µg of rHuHMGB1, His as determined by LAL method.
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 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

Human HMGB1

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

Shanghai PrimeGene Bio-Tech Co., Ltd.

Website: www.primegene.com.cn

Website: www.primegene.com

Email: info.pg@bio-techne.com

Tel: +86 21 52293200

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.

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