Recombinant Human High Mobility Group Box-1 Protein, His

Catalog No: #AP60448

Package Size: #AP60448-1 10ug #AP60448-2 100ug #AP60448-3 500ug

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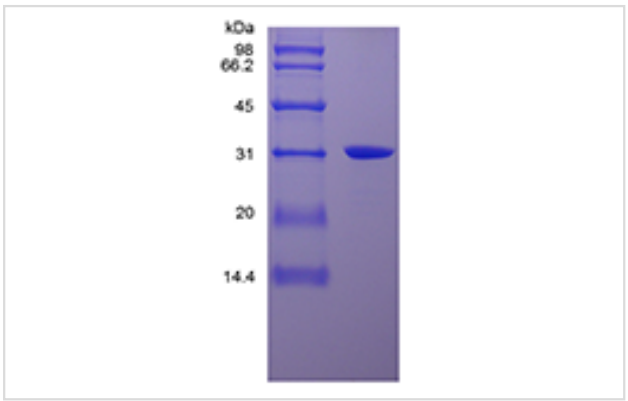
Description

Product Name	Recombinant Human High Mobility Group Box-1 Protein, His
Host Species	Escherichia coli.
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Other Names	Sentrin-2, SMT3B, SMT3H2
Uniprot	P09429
GeneID	3146
Calculated MW	Approximately 26.0 kDa, a single non-glycosylated polypeptide chain containing 223 amino acids with 6 x His at C-terminus.
Target Sequence	MGKGDPKKPR GKMSSYAFFV QTCREEHKKK HPDASVNFSE FSKKCSERWK TMSAKEKGKF EDMAKADKAR YEREMKTYIP PKGETKKKFK DPNAPKRPPS AFFLFCSEYR PKIKGEHPGL SIGDVAKKLG EMWNNTAADD KQPYEKKAAK LKEKYEKDIA AYRAKGKPDA AKKGVVKAEK SKKKKEEEED EEDEEDEEEE EDEEDEDEEE DDDDELEHHH HHH
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 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.

Images



Background

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.

Note: This product is for in vitro research use only