

High-Mobility Group Box 1 Hi-5 Recombinant Protein | HMGB1 Hi-5 recombinant protein

Recombinant Human High-Mobility Group Box 1 Hi-5 Insect Cells

CATALOG # AAA38632	HOST Hi-5 Insect Cells
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PRODUCT SYNONYMS

High-Mobility Group Box 1 Hi-5; Recombinant Human High-Mobility Group Box 1 Hi-5 Insect Cells; HMGB1 Human; Hi-5; High-Mobility Group Box 1 Human Recombinant; HMG1; HMG3; SBP-1; Amphoterin; HMGB1; High-Mobility Group Box 1; HMGB1 Hi-5 recombinant protein

PRODUCT SPECIFICATIONS

Host	Hi-5 Insect Cells
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	The HMG1 solution (1mg/ml) contains 20mM Tris-HCl pH-8, 1mM EDTA, 0.5mM DTT and 10% glycerol. Sterile Filtered colorless solution.
Sequence	MGKGDPKKPR GKMSSYAFFV QTCREEHKKK HPDASVNFSE FSKKCSERWK TMSAKEKGKF EDMAKADKAR YEREMKTYIP PKGETKKKFK DPNAPKRPPS AFFLCSEYR PKIKGEHPGL SIGDVAKKLG EMWNNTAADD KQPYEKKA AK LKEKYEK DIA AYRAKGK PDA AKKGVVKA EK SKKKKEEEEE EDEEDEEEEE EDEEDEEEEE DDDDELE HHHHHH
Sequence Length	215

ADDITIONAL INFORMATION

Related Product Information for HMGB1 Hi-5 recombinant protein	Description: HMGB1 Human Recombinant fused to an 8 aa His-Tag at C-terminus produced in High Five insect cells is a single, glycosylated, polypeptide chain (amino acids 1-215) containing 223 amino acids and having a molecular mass of 25 kDa. The HMGB1 is purified by proprietary chromatographic techniques. Introduction: HMGB1 is an abundant chromatin-binding protein found in eukaryotic cell nucleus and acts in the assembly of nucleoprotein complexes. Inside the cell, HMGB1 binds to DNA and is involved in transcriptional regulation. Outside the cell, HMGB1 acts as a cytokine with activities that resemble those of tumor necrosis factor (TNF). HMGB1 is elevated significantly in chronic kidney disease patients and correlates with glomerular filtration rate as well as with markers of inflammation and malnutrition. HMGB1 is involved in Gram-negative sepsis by catalyzing movement of LPS monomers from LPS aggregates to CD14 to initiate a TLR4-mediated proinflammatory response. HMGB1 plays an important role in the relationship between necrosis and malignancy in glioma tumours. HMG1 protein is induced by Mycobacterium bovis BCG. Overexpression of HMGB1 is common in gastrointestinal stromal tumors and is related to the KIT mutation. HMG1 induces growth inhibition and apoptosis in macrophages through RAGE intracellular signaling pathway. The increase of extracellular HMGB1 observed in salivary glands of Sjogren's syndrome patients indicates that HMGB-1 is involved in the inflammatory process of the disease. HMGB-1 together with estrogen increase cell cycle progression in tumor cell lines.
Product Categories/Family for HMGB1 Hi-5 recombinant protein	Recombinant & Natural Proteins; Recombinant Proteins; High-Mobility Group

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504425
NCBI GeneID	3146
NCBI Accession #	NP_002119.1
NCBI GenBank Nucleotide #	NM_002128.4

UniProt Accession #	P09429 ; Q14321 ; Q5T7C3 ; Q6IBE1 ; A5D8W9
Molecular Weight	24,894 Da
NCBI Official Full Name	high mobility group protein B1
NCBI Official Synonym Full Names	high mobility group box 1
NCBI Official Symbol	HMGB1
NCBI Official Synonym Symbols	HMG1; HMG3; SBP-1
NCBI Protein Information	high mobility group protein B1; Amphoterin; HMG-1; Sulfoglucuronyl carbohydrate binding protein; high mobility group protein 1; high-mobility group (nonhistone chromosomal) protein 1; high-mobility group box 1
UniProt Protein Name	High mobility group protein B1
UniProt Gene Name	HMGB1
UniProt Synonym Gene Names	HMG1; HMG-1
UniProt Entry Name	HMGB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hmgb1-recombinant-protein-hi-5-insect-cells/38632>