

Recombinant Human High-mobility Group Box 1, His-tagged

Cat. No. HMGB1-532H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HMGB1 was expressed in <i>High Five insect cells</i> and purified by conventional chromatography techniques. MW = 25kDa (223aa).
Species	Human
Source	Hi-5 Insect Cells
Description	High mobility group box1 protein (HMGB1) is a very abundant chromatin-binding protein residing in the eukaryotic cell nucleus and acting in the assembly of nucleoprotein complexes. Inside the cell, HMGB1 binds to DNA and has a role in transcriptional regulation. Outside the cell, HMGB1 acts as a cytokine and has activities that resemble those of tumor necrosis factor.
Amino Acid Sequence	MGKGDPPKKPR GKMSYAFFV QTCREEHKKK HPDASVNFSE FSKKCSERWK TMSAKEKGKF EDMAKADKAR YEREMKTYIP PKGETKKKFK DPNAPKRPPS AFFLCSEYR PKIKGEHPGL SIGDVAKKLG EMWNNTAADD KQPYEKKA LKEKYEKDIA AYRAKGKPD AAKGVVKA EKSKKKKEEEED EDEEDEDEEE EDEEDEDEEE DDDDELEHHH HHH.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 0.5 mM DTT, 1 mM EDTA, 10% glycerol.
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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Endotoxin Level	< 1.0 EU per 1 µg of protein (determined by LAL method).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	HMGB1 high-mobility group box 1 [Homo sapiens]
Synonyms	HMGB1; DKFZp686A04236; HMG1; HMG3; SBP-1; HMG3; high-mobility group box 1; Amphoterin; OTTHUMP00000018199; OTTHUMP000000190860; high mobility group protein 1; Sulfoglucuronyl carbohydrate binding protein; high-mobility group (nonhistone chromosomal) protein 1; Amphoterin, High-Mobility Group Box 1
Gene ID	3146
mRNA Refseq	NM_002128
Protein Refseq	NP_002119
MIM	601912
UniProt ID	P09429
Chromosome Location	13q12
Function	DNA bending activity; DNA binding; transcription factor binding

PDB rendering based
on 1aab.



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