

Active Recombinant Rat Hmgb1 protein, LPS-Free

Cat. No. Hmgb1-19R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Hmgb1 was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	HMGB1 consists of 215 amino acid residues.
Form	50 mM HEPES-Na pH 7.9, 500 mM NaCl, 0.5 mM DTT.
Bio-activity	Measured by its ability to induce migration. Maximal activity in the cell migration assay is obtained at 1 nM, or 25 ng/ml.
Molecular Mass	Has a calculated molecular mass of approximately 24.8 kDa. It migrates at a position of approximately 30 kD in SDS-PAGE gels, possibly because of the unusual number of positively charged amino acids it contains.
AA Sequence	MGKGDPPKKPR GKMSYAFFV QTCREEHKKK HPDASVNFSE FSKKCSERWK TMSAKEKGKF EDMAKADKAR YEREMKTYIP PKGETKKKFK DPNAPKRPPS AFFLFCSEYR PKIKGEHPGL SIGDVAKKLG EMWNNTAADD KQPYEKKA LKEKYEKDIA AYRAKGKPPA AKKGVVKA EK SKKKKEEEDD EEEEEDEEEE EEEEDEDEEEE DDDDE
Endotoxin	<0.4 ng LPS per mg protein

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Purity	The purified protein is >95% homogeneous (electrophoresis and mass spectrometry). It contains no nucleic acids, nor IL-1beta.
Storage	Once resuspended can be stored frozen at -20 centigrade. To avoid cysteine oxidation, DTT 0.5mM is added during protein purification.
GENE INFORMATION	
Gene Name	Hmgb1 high mobility group box 1 [Rattus norvegicus]
Official Symbol	Hmgb1
Synonyms	HMGB1; high mobility group box 1; high mobility group protein B1; HMG-1; amphoterin; high mobility group 1; heparin-binding protein p30; high mobility group protein 1; Hmg1; Ac2-008; MGC93598; MGC93599;
Gene ID	25459
mRNA Refseq	NM_012963
Protein Refseq	NP_037095
MIM	
UniProt ID	P63159
Chromosome Location	12p11
Pathway	Androgen Receptor Signaling Pathway, organism-specific biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem;

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Function

5S rRNA binding; DNA binding, bending; DNA binding, bending; RAGE receptor binding; RAGE receptor binding; bent DNA binding; calcium-dependent protein kinase regulator activity; crossed form four-way junction DNA binding; cytokine activity; cytokine activity; double-stranded DNA binding; four-way junction DNA binding; glycolipid binding; heparin binding; heparin binding; open form four-way junction DNA binding; peptide binding; protein binding; protein dimerization activity; protein kinase activator activity; repressing transcription factor binding; sequence-specific DNA binding transcription factor activity; single-stranded DNA binding; transcription factor binding; transcription factor binding;

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