

## Active Recombinant Rat Hmgb1 protein, LPS-Free

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Hmgb1 was expressed in E. coli.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>ProteinLength</b>	HMGB1 consists of 215 amino acid residues.
<b>Form</b>	50 mM HEPES-Na pH 7.9, 500 mM NaCl, 0.5 mM DTT.
<b>Bio-activity</b>	Measured by its ability to induce migration. Maximal activity in the cell migration assay is obtained at 1 nM, or 25 ng/ml.
<b>Molecular Mass</b>	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.
<b>AA Sequence</b>	MGKGDPPKPR GKMSYAFFV QTCREEHKKK HPDASVNFSE FSKKCSERWK TMSAKEKGKF EDMAKADKAR YEREMKTYIP PKGETKKKFK DPNAPKRPPS AFFLFCSEYR PKIKGEHPGL SIGDVAKKLG EMWNNTAADD KQPYEKKA LKEKYEKIDIA AYRAKGPDA AKKGVVKA EK SKKKKEEEDD EEEDEDEEEE EEEEDEDEEEE DDDDE
<b>Endotoxin</b>	<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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