

Active Recombinant Human High-Mobility Group Box 1, MIgG2a Fc-tagged

Cat. No. HMGB1-451H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human HMGB1 (NP_002119.1)(Arg24-Glu215) is fused to the N-terminus of the Fc region of mouse IgG2a was expressed in CHO cell.
Species	Human
Source	CHO
ProteinLength	24-215 a.a.
Description	HMGB1 (high mobility group box 1) is a protein-coding gene. Diseases associated with HMGB1 include staphylococcal toxic shock syndrome, and toxic shock syndrome, and among its related super-pathways are Immune System and Granzyme-A Pathway. GO annotations related to this gene include cytokine activity and sequence-specific DNA binding transcription factor activity. An important paralog of this gene is HMGB4.
Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	Measured in a competitive binding assay.
Molecular Mass	48KDa
AA Sequence	Arg24-Glu215)

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Endotoxin	<0.06 eu/μg="" as="" determined="" by="" lal="" test="">
Purity	≥98%, by SDS-PAGE under reducing conditions.
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Reconstitution	Reconstitute at 100μg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	HMGB1 high mobility group box 1 [Homo sapiens]
Official Symbol	HMGB1
Synonyms	HMGB1; high mobility group box 1; high mobility group (nonhistone chromosomal) protein 1 , high mobility group box 1 , HMG1; high mobility group protein B1; Amphoterin; DKFZp686A04236; high mobility group protein 1; HMG3; SBP 1; Sulfoglucuronyl carbohydrate binding protein; HMG-1; high-mobility group box 1; high-mobility group (nonhistone chromosomal) protein 1; HMG1; SBP-1;
Gene ID	3146
mRNA Refseq	NM_002128
Protein Refseq	NP_002119
MIM	163905

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UniProt ID	P09429
Chromosome Location	13q12
Pathway	Activated TLR4 signalling, organism-specific biosystem; Activation of DNA fragmentation factor, organism-specific biosystem; Advanced glycosylation endproduct receptor signaling, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis induced DNA fragmentation, organism-specific biosystem; Apoptotic executionphase, organism-specific biosystem;
Function	DNA binding; DNA binding, bending; DNA binding, bending; RAGE receptor binding; calcium-dependent protein kinase regulator activity; chemoattractant activity; cytokine activity; cytokine activity; damaged DNA binding; double-stranded DNA binding; protein

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