

## Recombinant Human HMGB3, His-tagged

Cat. No. HMGB3-105H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human High Mobility Group Protein B3/HMGB3 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Ala2-Glu200) of Human HMGB3 fused with a polyhistidine tag at the C-terminus.

**Species** Human

**Source** HEK293

**ProteinLength** 2-200 a.a.

**Description** High Mobility Group Protein B3 (HMGB3) belongs to the HMGB family. Members of the HMG box subfamily are thought to have an important role in DNA replication, nucleosome assembly and transcription. HMGB3 binds preferentially single-stranded DNA and unwinds double stranded DNA. HMGB3 consists of 200 amino acids and is localized to the cell nucleus. It contains two HMG box DNA-binding domain. HMGB3 binds preferentially single-stranded DNA and unwinds double stranded DNA.

**AA Sequence**  
 MAKGDPKKPKGKMSAYAFFVQTCREEHKKKNPEVPVNFAEFSKKCSERWKTMSGK  
 EKSKFDEMAK ADKVRDREMKDYGPAKGGKKKKDPNAPKRPPSGFFLFCSEFRPK  
 IKSTNPGISIGDVAKKLGEM WNNLNDSEKQPYITKAAKLKEKYEKDVADYKSKGKFD  
 GAKGPAKVARKKVEEEDEEEEEEEEEEEEE EEEDEVDDHHHHHH

**Endotoxin** Less than 0.1 ng/μg (1 IEU/μg).

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**Purity** Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

## GENE INFORMATION

**Gene Name** HMGB3 high mobility group box 3 [ Homo sapiens ]

**Official Symbol** HMGB3

**Synonyms** HMGB3; high mobility group box 3; high mobility group (nonhistone chromosomal) protein 4 , high mobility group box 3 , HMG4; high mobility group protein B3; HMG2A; MGC90319; non histone chromosomal protein; high-mobility group box 3; high mobility group protein 4; high mobility group protein 2a; non-histone chromosomal protein; high-mobility group (nonhistone chromosomal) protein 4; HMG4; HMG-4; HMG-2a;

**Gene ID** 3149

**mRNA Refseq** NM\_005342

**Protein Refseq** NP\_005333

**MIM** 300193

**UniProt ID** O15347

**Chromosome Location** Xq28

**Function** DNA binding, bending; double-stranded DNA binding;

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