

# Recombinant human HMGB3 protein

Catalog Number: ATGP2238

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-180aa

### UniProt No.

O15347

### NCBI Accession No.

NP\_005333

### Alternative Names

High mobility group protein B3, HMG-2a, HMG-4, HMG2A, HMG4

## PRODUCT SPECIFICATION

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### Molecular Weight

22.8 kDa (203aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

HMGB3 belongs to the high mobility group (HMG) protein superfamily. Like HMG1 (MIM 163905) and HMG2 (MIM 163906), HMGB3 contains DNA-binding HMG box domains and is classified into the HMG box subfamily. Members of the HMG box subfamily are thought to play a fundamental role in DNA replication, nucleosome assembly and transcription. Recombinant human HMGB3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH MGS>MAKGDPK KPKGKMSAYA FFVQTCREEH KKKNPEVPVN FAEFSKKCSE  
RWKTMSGKEK SKFDEMAKAD KVRDREMMD YGPAKGGKKK KDPNAPKRPP SGFFLFCSEF RPKIKSTNPG ISIGDVAKKL  
GEMWNNLNDSEKQPYITKAA KLKEYEKDV ADYKSKGKFD GAKGPAKVAR KKV

### General References

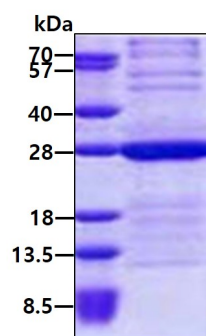
Nemeth, M.J., et al. (2006) Proc. Natl. Acad. Sci. U.S.A. 103 (37), 13783-13788

Ross, M.T., et al. (2005) Nature 434 (7031), 325-337

## DATA

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### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.