# **PRODUCT INFORMATION**

**Expression system** Baculovirus

**Domain** 1-215aa

**UniProt No.** P09429

NCBI Accession No. NP\_002119.1

### **Alternative Names**

Sulfoglucuronyl carbohydrate binding protein, SBP-1, HMGB1, HMG3, HMG1, High-mobility group box1, High-mobility group (nonhistone chromosomal) protein 1, DKFZp686A04236, Amphoterin

## **PRODUCT SPECIFICATION**

### **Molecular Weight**

25 kDa (223aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM EDTA, 0.5mM DTT, 10% glycerol

**Purity** > 90% by SDS-PAGE

**Endotoxin level** < 1 EU per 1ug of protein (determined by LAL method)

**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

### Description

High mobility group box1 protein (HMGB1) is a very abundant chromatin-binding protein residing in the eukaryotic cell nucleus and acting in the assembly of nucleoprotein complexes. Inside the cell, HMGB1 binds to DNA and has a role in transcriptional regulation. Outside the cell, HMGB1 acts as a cytokine and has activities



that resemble those of tumor necrosis factor. Recombinant human HMGB1 was expressed in insect cells and purified by conventional chromatography techniques.

### Amino acid Sequence

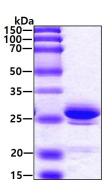
MGKGDPKKPR GKMSSYAFFV QTCREEHKKK HPDASVNFSE FSKKCSERWK TMSAKEKGKF EDMAKADKAR YEREMKTYIP PKGETKKKFK DPNAPKRPPS AFFLFCSEYR PKIKGEHPGL SIGDVAKKLG EMWNNTAADD KQPYEKKAAK LKEKYEKDIA AYRAKGKPDA AKKGVVKAEK SKKKKEEEED EEDEEDEEEE EDEEDEDEEE DDDDE<LEHHH HHH>

### **General References**

Palumbo R J., et al. (2004) Cell Biol. 164(3):441-9. Andersson u., et al (2002) Leukoc Biol. 72(6):1084-91.

## DATA

### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.