

## HMGB1 for biochemistry

**Product Number:** HM-101 (250 µg) HM-100 (1mg)

**Expiration date:** (depends on batch)

**Batch number:** (each batch has a specific tracking number)

**Batch concentration:** (depends in batch) after addition of (depends on batch) of distilled water

### **Product Description:**

HMGB1 is a 25 kDa nuclear protein, present in almost all mammalian cells. The protein is almost identical (213/215 aa) in human, mouse, rat.

This product corresponds to the rat sequence and is produced in *E.coli*. It contains LPS.

### **Reagent format:**

**The HMGB1 protein we provide is the natural protein, with no tags or additional amino acids.**

HMGB1 is lyophilized from 50 mM HEPES buffer, pH 7.9, 500 mM NaCl and 0.5 mM DTT.

**Storage:** 2-8°C. The protein once resuspended can be stored frozen (-20°C), thawed and re-frozen, *but is sensitive to oxidation by oxygen in ambient air. Oxidation of cysteine 106 makes the protein inactive* (Kazama *et al*, Immunity 2008; 29, 21-32).

### **This product is for research use only**

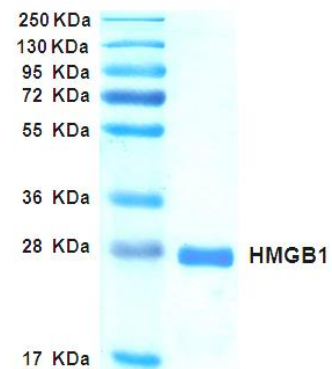
### **References:**

**Müller *et al*.** *Thermodynamics of HMGB1 interaction with duplex DNA.* Biochemistry 2001, **40**: 10254-61.

**Mollica L *et al*.** *Glycyrrhizin binds to High Mobility Group Box 1 protein (HMGB1) and inhibits its cytokine activities.* Chem Biol 2007, **14**: 431-41.

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MGKGDPPKPR GKMSYAFFV QTCREEHKKK
HPDASVNFSE FSKKCSERWK TMSAKEKGF
EDMAKADKAR YEREMKTYIP PKGETKKKFK
DPNAPKRPPS AFFLFCSEYR PKIKGEHPGL
SIGDVAKKLG EMWNNTAADD KQPYEKKA
LKEKYEKIDIA AYRAKGPDA AKKGVVKA
SKKKKEEEDD EEDEEEDDEE EEEDEDEE
DDDDE
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**Fig. 1.** HMGB1 sequence



**Fig. 2.** SDS-PAGE with Coomassie Blue staining