

HMGB1 for biochemistry

Product Number: *****
Expiration date: *****
Batch number: *****
Batch concentration: **** mg/mL after addition of
**** μ L of distilled water.

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MGKGDPPKPR GKSSYAFFV QTCREEHKKK
HPDASVNFSE FSKKCSERWK TMSAKEKGF
EDMAKADKAR YEREMKTYIP PKGETKKKFK
DPNAPKRPPS AFFLFCSEYR PKIKGEHPGL
SIGDVAKKLG EMWNNTAADD KQPYEKKA
LKEKYEKDIA AYRAKGKPA AKKGVVKA
SKKKKEEEDD EEDEEDEEEE EEEDEDEEEE
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Product Description:

HMGB1 is a 25 kDa nuclear protein, present in almost all mammalian cells. The protein is virtually 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:

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

The lyophilized protein once reconstituted will be dissolved in a solution containing 50 mM HEPES pH 7.9, 500 mM NaCl, DTT 0,5 mM.

Storage: 2-8°C. The protein once resuspended can be stored frozen (-20°C), thawed and re-frozen.

Oxidation of cysteine 106 makes the protein inactive (Kazama *et al*, Immunity 2008; 29, 21-32).

To avoid cysteine oxidation DTT 0.5 mM is added during protein purification.

Fig. 1. HMGB1 sequence

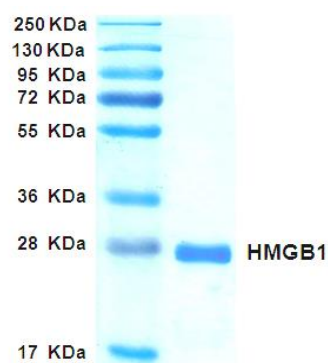


Fig. 2. SDS-PAGE with Coomassie Blue staining

This product is for research use only

References:

- Foelsch K. *et al* (2024) Intestinal Epithelia and Myeloid Immune Cells Shape Colitis Severity and Colorectal Carcinogenesis via High-mobility Group Box Protein . J Crohns Colitis 18(7):1122-1133.
- Wang H. *et al* (2017) Toxoplasma gondii Infection Induces High Mobility Group Box 1 Released from Mouse Macrophages. Front Microbiol 8:658
- Müller K. *et al* (2001) Thermodynamics of HMGB1 interaction with duplex DNA. Biochemistry 40: 10254-61.
- Mollica L. *et al* (2007) Glycyrrhizin binds to High Mobility Group Box 1 protein (HMGB1) and inhibits its cytokine activities. Chem Biol 14: 431-41.