



BoxB from HMGB1, human & mouse, with tag, LPS-free

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

Product Description:

BoxB is one of the DNA binding domains of HMGB1 protein. It consists of 90 amino acids and has a calculated molecular mass of approximately 10 kDa.

The sequence of BoxB is totally identical in human and mouse; this product contains four amino acids (MARI) that have been added at the N terminus for the purpose of expression in bacteria.

The protein is free from LPS (<0.1EU/mL). The product contains <0.006% v/v of Triton X-114 due to LPS removal procedure.

Reagent format:

The BoxB we provide is produced in *E.coli*.

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

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

This product is for research use only

References:

- Tripathi A. *et al* (2019) HMGB1 protein as a novel target for cancer. *Toxicol Rep* 2:6:253-261
- Liu M. *et al* (2018) Boxb mediate BALB/c mice corneal inflammation through a TLR4/MyD88-dependent signaling pathway in *Aspergillus fumigatus* keratitis *Int J Ophthalmol* 11(4):548-552
- Li X. *et al* (2004) Structural basis for the proinflammatory cytokine activity of HMGB1. *Mol Med* 9:37-45 11(4):548-552.
- Bianchi M.E. *et al* (1992) The DNA binding site of HMG1 protein is composed of two similar segments (HMG boxes), both of which have counterparts in other eukaryotic regulatory proteins. *EMBO J* 11: 1055-63
- Müller B. *et al* (2001) Thermodynamics of HMGB1 interaction with duplex DNA. *Biochemistry* 40: 10254-61

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MARIDPNAPK RPPSAFFLFC SEYRPKIKGE
HPGLSIGDVA KKLGEMWNNT AADDKQPYEK
KAAKLKEKYE KDIAAYRAKG KPDAAKKGVV
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Fig. 1. BoxB sequence. The tag used for expression in bacteria is in italic

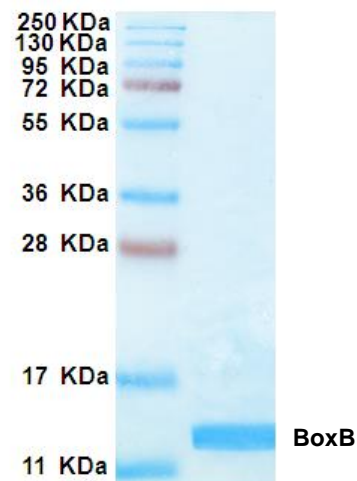


Fig. 2. SDS-PAGE with Coomassie Blue staining