

#### Synonym

HMGB1,HMG1,HMG3,SBP-1

#### Source

Mouse HMGB1, His Tag (HM1-M52H6) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Glu 215 (Accession # P63158-1). Predicted N-terminus: Met 1

#### **Molecular Characterization**

HMGB1(Met 1 - Glu 215) P63158-1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 26.8 kDa. The protein migrates as 33 kDa and 35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

#### Endotoxin

Less than 1.0 EU per µg by the LAL method.

## **Purity**

>90% as determined by SDS-PAGE.

# Formulation

Lyophilized from  $0.22~\mu m$  filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

## **Storage**

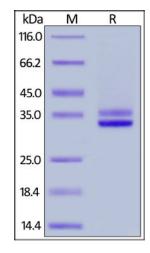
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## **SDS-PAGE**



Mouse HMGB1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

# Background

High-mobility group protein B1 (HMGB1) is also known as high-mobility group protein 1 (HMG-1) and amphoterin, is a member of the HMGB family consisting of three members, HMGB1, HMGB2 and HMGB3. HMGB1 is a non-histone architectural chromosomal protein ubiquitously present in all vertebrate nuclei and binds double-stranded DNA without sequence specificity. The mechanism of inflammation and damage is binding to TLR4, which mediates HMGB1-dependent activation of macrophage cytokine release. This positions HMGB1 at the intersection of sterile and infectious inflammatory responses. HMGB1 has been studied as a DNA vaccine adjuvant and a target for cancer therapy.

# Mouse HMGB1 Protein, His Tag

Catalog # HM1-M52H6



# References

- (1) Wang H, et al., 1999, Science 285 (5425): 248-51.
- (2) Yang H, et al., 2010, Proc. Natl. Acad. Sci. U.S.A. 107 (26): 11942-7.
- (3) Yang H, et al., 2010, Biochim. Biophys. Acta 1799 (1-2): 149–56.
- (4) <u>Fagone P, et al., 2011, Gene Ther. 18 (11): 1070–7.</u>

Please contact us via <u>TechSupport@acrobiosystems.com</u> if you have any question on this product.