

## Recombinant Human HMGB1 protein(His Tag)

**Catalog Number: PKSH034144**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human HMGB1 protein Met 1-Glu 215, with an C-terminal His
<b>Calculated MW</b>	25.7 kDa
<b>Observed MW</b>	35 kDa
<b>Accession</b>	P09429
<b>Bio-activity</b>	Measure by its ability to induce TNF alpha in RAW264.7 cells. The ED <sub>50</sub> for this effect is <10 µg/mL.

### Properties

<b>Purity</b>	> 98 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 0.1 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Background

High mobility group protein B1 is a member of the HMGB family consisting of three members; HMGB1; HMGB2 and HMGB3. It contains 2 HMG box DNA-binding domains entitled box A and box B and it is a highly negative-charged C terminus. As a nuclear protein; HMGB1 stabilizes nucleosomes and allows bending of DNA that facilitates gene transcription which is essential for individual survival. Meanwhile; it is revealed that HMGB1 can also act as a cytokine extracellularly and regulates monocyte; T cell; dendritic cell activities in inflammatory responses.