


## Human HMGB1 Protein, His tag (Animal-Free)

Cat #: PRP1092

Size: 5 µg/20 µg/100 µg/1 mg

### Product Information

	<b>Product Name:</b> Human HMGB1 Protein, His tag (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP1092	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 97 % as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> E.coli
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** High mobility group protein B1 protein (HMGB1) is the high mobility group box family of non-histone chromosomal proteins. Human HMGB1 is expressed as a 25 kDa single chain polypeptide containing three domains: two N-terminal HMG boxes A and B, and a negatively charged 30 aa C-terminal region that contains only Asp and Glu. Post-translational modification on HMGB1 have been reported, affect its localization, receptor interactions, and function. HMGB1, with a disulfide bond between C23 and C45, that cause cytokine production and the activation of NF-κB. Otherwise, the fully oxidized form has no immune function, losing its proinflammatory effect and the apoptotic cell death activation function.

**Sequence:** Amino acid sequence derived from Human HMGB1 (Met1-Glu215) (P09429) was expressed with 6×His tag at the C-terminus.

**Protein length:** The recombinant Human HMGB1 Protein consists of 215 amino acids and predicts a molecular mass of 25.7 kDa.

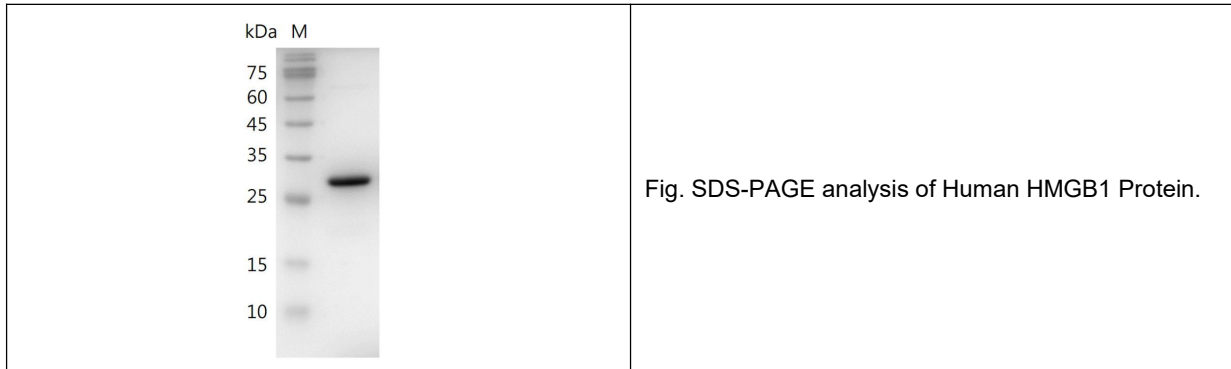
**Biological Activity:** Measured by its ability to induce TNF alpha in RAW264.7 cells. The ED<sub>50</sub> for this effect is <10 µg/mL.

**Endotoxin:** < 0.1 EU per µg of the protein as determined by the LAL method.

**Formulation:** Lyophilized from sterile PBS, pH8.0.

**Storage Instructions:** Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA, 10%FBS or 0.1%BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant protein to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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