

Recombinant Human HMGB1 protein(His Tag)

Catalog Number: PKSH034144

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

Description

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

Properties

Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.1 EU per µg of the protein as determined by the LAL method.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	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.
Reconstitution	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.