Recombinant Human HMGB1 Protein

Catalog Number: PKSH032544

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

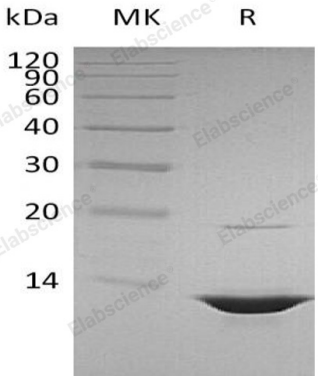
Description

Species	Human
Source	E.coli-derived Human HMGB1 protein Pro92-Val176, with an N-terminal MARI
Calculated MW	10.0 kDa
Observed MW	13 kDa
Accession	P09429
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 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 a 0.2 μm filtered solution of 50mM HEPES-Na, 500mM NaCl, 0.6mM DTT, pH 7.9. 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.

Data



> 95 % as determined by reducing SDS-PAGE.

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 extracellularlly and regulates monocyte; T cell; dendritic cell activities in inflammatory responses.

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