



Recombinant Protein Technical Manual

Recombinant Human HMGB1 Protein

RPES2218

Product Data:

Product SKU: RPES2218

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P09429

Protein Information:

Molecular Mass: 10.5 kDa

AP Molecular Mass: 14 kDa

Tag:

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 50mMHepes,500mMNaCl,0.5mMDTT, pH7.9 .

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: High Mobility Group Protein B1; High Mobility Group Protein 1; HMG; HMGB1; HMG1

Immunogen Information:

Sequence: Gly2-Phe89

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 has 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.