



Recombinant Protein Technical Manual

Recombinant Human HMGB1 Protein (MARI Tag)

RPES0734

Product Data:

Product SKU: RPES0734

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P09429

Protein Information:

Molecular Mass: 10.0 kDa

AP Molecular Mass: 13 kDa

Tag: N-MARI

Bio-activity:

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

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

Storage: 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,p H 7.9, 500mM NaCl, 0.6mM DTT.

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: Pro92-Val176

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.