

RMCM054

Recombinant HMGB1 (High mobility group box 1), Mouse
, AF



5ug;20ug;100ug;500ug;

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Synonym/Alternative name(s):

HMG-1, Hmg1, SBP, SBP-1, amph, p30

Activity:

Measure by its ability to induce TNF alpha in RAW264.7 cells.

The ED50 for this effect is <15 ng/mL.

Protein Description:

HMGB1 is present in the nuclei (chromatin associated) and cytoplasm of all cells and is a highly conserved protein in variety of species that. In the cytoplasm, HMGB1 is a regulator of autophagy, enhances cell survival, and limits apoptosis. It also can reduces protein aggregation caused by heat or chemical stress. HMGB1 is released to the extracellular milieu by inflammatory cells and by necrotic and apoptotic cells. Once released, it works as an inflammatory cytokine. HMGB1 is also secreted by macrophages and monocytes as a late response to LPS, TNF- α , IL-1 β , or IFN- γ .

Protein Accession : P63158.2

Gene ID : 15289

Expression Sequence:

MGKGDPPKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKCSERWKTMSAKEKGFEDMAKADKARYEREMKTYIPPKGETKK
KFKDPNAPKRPPSAFFLFCSEYRPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPYEKKAALKKEYEKDIAAYRAKGPDAAKKGVV
KAEKSKKKKEEEDDEEEDDEEEEEEEDEEEDDDDE with polyhistidine tag at the C-terminus

Fusion tag : His-tag?at?the?C-terminus

Species : Mouse

Reactivity : Mouse

Expression Host : Escherichia coli

Source : E. coli

Purity/method:

>95% as determined by SDS-PAGE.

Ni-NTA chromatography.

Endotoxin level:

<0.1 EU per 1 μ g of the protein by the LAL method.

Calculated Molecular Weight : 25.56 kDa

Formulation:

The protein was lyophilized from a solution containing 1X PBS, pH 7.4.

Reconstitution:

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 μ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Shipping : Blue Ice

Stability and Storage:

Lyophilized protein should be stored at -20°C for 1 year.

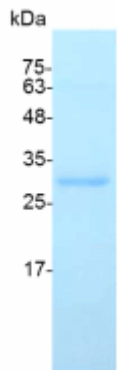
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

Category : Cytokines

Application : Cell culture, Elisa

Image:



SDS- PAGE analysis of recombinant mouse HMGB1