

RMCH176

Recombinant HMGB1 C23AC45A, Human (mammalian cell expression), AF



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

Synonym/Alternative name(s) : HMG-1, HMG1, HMG3, SBP-1

Activity:

Measure by its ability to induce TNF alpha in RAW264.7 cells. The ED50 for this effect is <10 µg/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-1β, or IFN-γ.

Protein Accession : P09429.3

Gene ID : 3146

Expression Sequence:

MGKGDPPKPRGKMSSYAFFVQTAREEHKKKHPDASVNFSEFSKKASERWKTMSAKEKGFEDMAKADKARYEREMKTYIPPKGETKK
KFKDPNAPKRPPSAFFLCSEYRPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPYEKKAALKKEYEKDIAAYRAKGPDAAKKGVV
KAEKSKKKKEEEDEEEDDEEEDEEEDDEEEDDDDE with polyhistidine-SUMO tag at the N-terminus

Fusion tag : His-SUMO tag at the N-terminus

Species : Human

Reactivity : Human

Expression Host : HEK293

Source : HEK293

Purity/method:

>98% as determined by SDS-PAGE. Ni-NTA chromatography

Endotoxin level:

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

Calculated Molecular Weight : 36.36 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 µg/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.

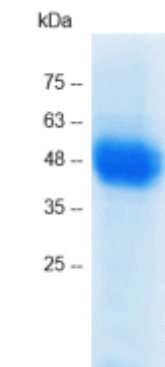
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

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 human HMGB1 C23AC45A