

**RMCH175****Recombinant HMGB1, Human (mammalian cell expression),  
AF** 5ug;20ug;100ug;500ug;

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**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:**

MGKGDPPKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKCSERWKTMSAKEKGFEDMAKADKARYEREMKTYIPPKGETKK  
KFKD

PNAPKRPPSAFFLFCSEYRPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPYEKKAALKKEKYEKDIAAYRAKGPDAAKKGVVKAEK  
SKK

KKEEEDEEEDDEEEEEDEEEDDDDE 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 :** 36.42 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.

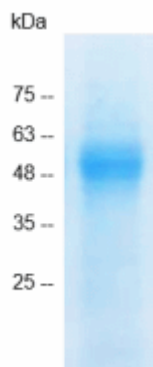
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

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