

Active Recombinant Mouse Hmgb1 Protein, His-Tagged

Cat. No. Hmgb1-01M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Hmgb1 Protein, His-tagged was expressed in E. coli cell
Species	Mouse
Source	E.coli
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 reduce 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 .
Form	Lyophilized powder
AA Sequence	MGKGDPPKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSA KEKGKFEDMAKADKARYEREMKTYIPPKGETKKKFKDPNAPKRPPSAFFLFCSEYR PKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPYEKKAACLKEKEYEKDIAAYRAK GK PDAAKKGVVKAEKSKKKKEEEDDEEEDDEEEEEEEEEDEEEDDDDE with polyhi stidine tag at the C-terminus
Endotoxin	<0.1 EU per 1 μ g of the protein by the LAL method.
Bio-activity	Measure by its ability to induce TNF alpha in RAW264.7 cells. The ED50 for this

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	effect is <15 ng/mL.
Purity	>95% as determined by SDS-PAGE. Ni-NTA chromatography
Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Notes	Please use within one month after protein reconstitution.

GENE INFORMATION

Gene Name	Hmgb1 high mobility group box 1 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Hmgb1
Synonyms	p30; Hmg1; HMG-1; SBP-1
Gene ID	15289
mRNA Refseq	NM_001313894.1
Protein Refseq	NP_001300823.1
UniProt ID	P27428

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