

Human CellExp™ HMGB1 /HMG1, Human Recombinant

CATALOG NO:	7240-10	10 µg
	7240-50	50 µg
ALTERNATE NAMES:	HMGB1, HMG1, HMG3, SBP-1	
SOURCE:	HEK 293 cells (Met1 - Glu 215)	
PURITY:	> 95% by SDS-PAGE	
MOL. WEIGHT:	The protein is fused with 6xHis tag at the C-terminus, has a calculated MW of 25 kDa. The predicted N-terminus is Met1. DTT-reduced Protein migrates as 32 kDa and 35 kDa due to glycosylation.	
FORM:	Lyophilized	
FORMULATION:	Lyophilized from 0.22 µm filtered solution in PBS. Trehalose (5%) was added as a protectant before lyophilization.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freeze-thaw cycles.	
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4. Do not vortex. Store the solution in aliquots at -20°C for long term storage.	
DESCRIPTION:	High-mobility group protein B1 (HMGB1), also known as high-mobility group protein 1 (HMG-1) and amphoterin, is a member of the HMGB family consisting of three members, HMGB1, HMGB2 and HMGB3. HMGB1 is a non-histone architectural chromosomal protein ubiquitously present in all vertebrate nuclei and binds double-stranded DNA without sequence specificity. It is also involved in inflammation and damage by binding to TLR4, which mediates HMGB1-dependent activation of macrophage cytokine release. This positions HMGB1 at the intersection of sterile and infectious inflammatory responses. HMGB1 has been studied as a DNA vaccine adjuvant and a target for cancer therapy.	
BIOLOGICAL ACTIVITY:	Measured by its binding ability in a functional ELISA. Immobilized human AGER-Fc tag protein (100 µl/well) can bind to HMGB1 in a linear range of 0.31-2.5 µg/ml.	

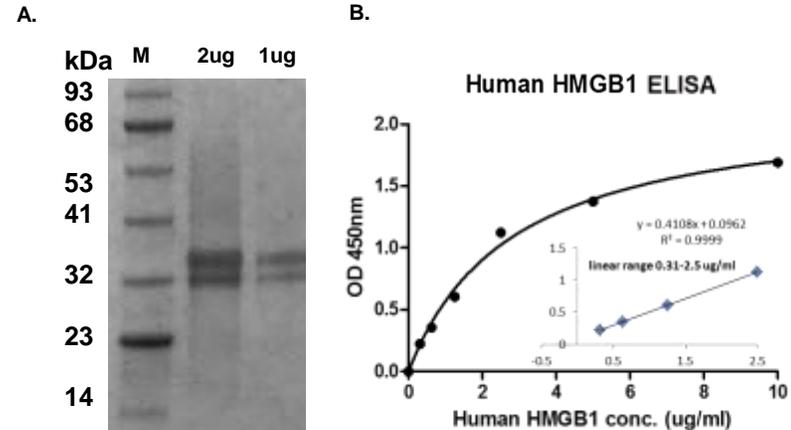


Fig A. SDS-PAGE (4-20%) of Recombinant HMGB1: Recombinant protein loaded under reducing conditions and stained with Coomassie Blue. The protein shows a predicted MW of 32 kDa

Fig B. Biological activity: Measured by its binding ability in a functional ELISA HMGB1 is binding to immobilized human AGER-Fc tag protein (100 µg/well) with a linear range of 0.31-2.5 µg/ml.

RELATED PRODUCT:

- Anti-HMGB1 Antibody (Cat. No. A1005)

FOR RESEARCH USE ONLY! Not to be used on humans.