

High-Mobility Group Box 1 Human Recombinant

Item Number	rAP-3448
Synonyms	HMG1, HMG3, SBP-1, Amphoterin, HMGB1, High-Mobility Group Box 1.
Description	HMG1 Human Recombinant fused with 6X His tag produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 223 amino acids and having a molecular mass of 26 kDa. The HMGB-1 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P09429
Amino Acid Sequence	MGKGDPKKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSAKEKGK-FEDMAKADKARYEREMKTYIPPKGETKKKFKDPNAPKRPPSAFFLFCSEYRPKIKGEHPGLSIGDVAKKLGEMWNNNTAADDKQPYEKKAALKKEYEKDIAAYRAKGKPDAAKKGVVKAESKKKEEEEEDEEEEEDEEEDEEDEDDEDDDELEHHHHHH.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized HMGB1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution HMGB1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	The HMG1 (1mg/ml) was lyophilized after extensive dialyses against 1x PBS pH-7.4. Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized HMGB1 in sterile 18MΩ-cm H ₂ O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**