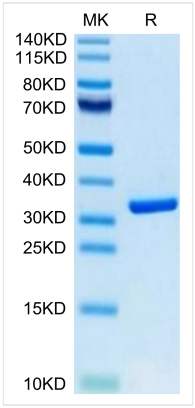
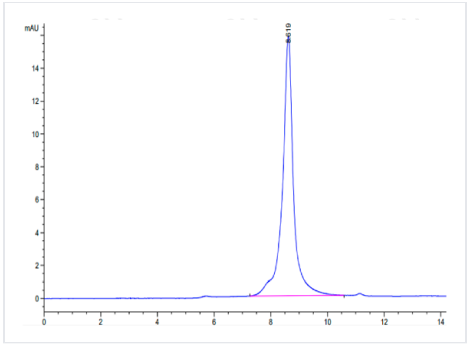
HMGB1 Biotinylated Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	HMGB1, Recombinant Protein
Full Product Name	Biotinylated Human HMGB1 Protein Recombinant
Product Gene Name	HMGB1 recombinant protein
Host	HEK293 cells (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.)
Form/Format	Recombinant Human HMGB1 (Primary Amine Labeling) was lyophilized from 0.2 um filtered PBS solution pH7.4
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Preparation and Storage	The lyophilized protein is stable for at least 2 years from date of receipt at-20 degree C.
Molecular Weight	24,894 Da
Chromosome Location	Chromosome: 13; NC_000013.10 (31032877..31040081, complement). Location: 13q12
OMIM	163905
3D Structure	ModBase 3D Structure for P09429
Source	DNA sequence encoding Human HMGB1 (Primary Amine Labeling) including a C-His tag was expressed in HEK293 Cells.The recombinant protein was then biotinylated site specific using the AVItag biotinylation technology.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Molecular Function	DNA-binding
Biological Process	Immunity, Autophagy, Chemotaxis
Reconstitution	Centrifuge vial to ensure maximal product extraction, recommended: 20sec, 5K RPM
Product Categories/Family for HMGB1 recombinant protein	Biotinylated proteins
Related Product Information for HMGB1 recombinant protein	MBS553952 is a recombinant protein targeting HMGB1. Also known as Biotinylated Human HMGB1 Protein Recombinant. Host: HEK293 cells (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.).
Other Notes	Small volumes of HMGB1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Tris-Bis-Page of HMGB1 recombinant protein
Biotinylated Human HMGB1 Protein (Primary Amine Labeling) Tris-Bis PAGEBiotinylated Human HMGB1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



Testing Data of HMGB1 recombinant protein
Biotinylated Human HMGB1 Protein (Primary Amine Labeling) SEC-HPLCThe purity of Biotinylated Human HMGB1 is greater than 95% as determined by SEC-HPLC.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HMGB1. It may not necessarily be applicable to this product.

NCBI GI #	4504425
NCBI GeneID	3146
NCBI Accession #	NP_002119.1
UniProt Primary Accession #	P09429
UniProt Secondary Accession #	P04637 P53_HUMAN
UniProt Related Accession #	P09429
GenBank Nucleotide #	NM_002128.4
NCBI Official Full Name	high mobility group protein B1
NCBI Official Synonym Full Names	high mobility group box 1
NCBI Official Symbol	HMGB1
NCBI Official Synonym Symbols	HMG1; HMG3; SBP-1
UniProt Protein Name	High mobility group protein B1
UniProt Synonym Protein Names	High mobility group protein 1
Protein Family	High mobility group B protein
UniProt Gene Name	HMGB1
UniProt Synonym Gene Names	HMG1; HMG-1
UniProt Entry Name	HMGB1_HUMAN
NCBI Protein Information	high mobility group protein B1; HMG-1; Amphoterin; high-mobility group box 1; high mobility group protein 1; Sulfoglucuronyl carbohydrate binding protein; high-mobility group (nonhistone chromosomal) protein 1

UniProt Comments for HMGB1	HMGB1: DNA binding proteins that associates with chromatin and has the ability to bend DNA. Binds preferentially single-stranded DNA. Involved in V(D)J recombination by acting as a cofactor of the RAG complex. Acts by stimulating cleavage and RAG protein binding at the 23 bp spacer of conserved recombination signal sequences (RSS). Heparin-binding protein that has a role in the extension of neurite-type cytoplasmic processes in developing cells. Component of the RAG complex composed of core components RAG1 and RAG2, and associated component HMGB1 or HMGB2. Belongs to the HMGB family. Protein type: DNA repair, damage; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 13q12 Cellular Component: nucleoplasm; extracellular space; cell surface; transcriptional repressor complex; extracellular region; condensed chromosome; nucleus Molecular Function: protein binding; RAGE receptor binding; double-stranded DNA binding; damaged DNA binding; cytokine activity; chromatin binding; transcription factor activity; DNA bending activity; transcription factor binding; single-stranded DNA binding; chemoattractant activity Biological Process: negative regulation of transcriptional preinitiation complex assembly; DNA topological change; V(D)J recombination; apoptosis; positive regulation of apoptosis; positive regulation of caspase activity; base-excision repair, DNA ligation; negative regulation of transcription from RNA polymerase II promoter; DNA recombination; chromatin remodeling; regulation of transcription from RNA polymerase II promoter; myeloid dendritic cell activation; inflammatory response to antigenic stimulus; positive chemotaxis; dendritic cell chemotaxis; innate immune response; DNA ligation during DNA repair; positive regulation of transcription from RNA polymerase II promoter; DNA fragmentation during apoptosis; neurite development; cell structure disassembly during apoptosis; positive regulation of DNA binding
Research Articles on HMGB1	**1.** HMGB1 level is an independent predictor of poor functional outcome following aneurysmal subarachnoid hemmorrhage.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/hmgb1/553952