

Recombinant Human HMGA1, His-tagged

Cat. No. HMGA1-3597H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HMGA1 protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-107 aa).
Species	Human
Source	E.coli
Description	High mobility group protein HMG-I/HMG-Y, also known as HMGA1, is a member of the non-histone chromosomal high mobility group protein (HMG) family. HMGA1 consists of a highly conserved AT-hook DNA-binding domain that mediates binding to AT-rich sequences in the minor groove of chromosomal DNA. It functions as architectural chromatin-binding transcription factor altering the conformation of DNA by modulating nuclear protein-DNA complexes. It is involved in many cellular processes including growth regulation, viral induction of beta-IFN gene and regulation of inducible gene transcription.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 50% glycerol, 0.2M NaCl
Molecular Weight	12.7 kDa (115aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)
Purity	> 90% by SDS - PAGE
Concentration	0.25 mg/ml (determined by Bradford assay)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of amino acids	MSESSSKSSQ PLASKQEKDG TEKRGRGRPR KQPPVSPGTA LVGSQKEPSE VPTPKRPRGR PKGSKNKGAA KTRKTTTTTPG RKPRGRPKKL EKEEEEGISQ ESSEEEQLEH HHHHH
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	HMGA1 high mobility group AT-hook 1 [Homo sapiens]
Official Symbol	HMGA1
Synonyms	HMG-R; HMGIY; HMGA1A; MGC4242; MGC4854; MGC12816; HMGA1; high mobility group protein HMG-I/HMG-Y; HMG-I(Y); high mobility group protein R; high mobility group protein A1; high mobility group AT-hook protein 1; nonhistone chromosomal high-mobility group protein HMG-I/HMG-Y; OTTHUMP00000016223; OTTHUMP00000016224; high-mobility group (nonhistone chromosomal) protein isoformsI and Y; OTTHUMP00000016222
Gene ID	3159
mRNA Refseq	NM_002131
Protein Refseq	NP_002122
MIM	600701
UniProt ID	P17096
Chromosome	6p21

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Location**Function**

AT DNA binding; DNA binding; enzyme binding; ligand-dependent nuclear receptor transcription coactivator activity; peroxisome proliferator activated receptor binding; protein binding; retinoic acid receptor binding; retinoid X receptor binding; sequence-specific DNA binding transcription factor activity; transcription factor binding

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA