

Recombinant Human high mobility group AT-hook 2, His-tagged

Cat. No. HMGA2-592H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HMGA2, 1-109aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-109 a.a.
Description	HMGA2 is a protein that belongs to the non-histone chromosomal high mobility group (HMG) protein family. HMG proteins function as architectural factors and are essential components of the enhancosome. This protein contains structural DNA-binding domains and may act as a transcriptional regulating factor. Identification of the deletion, amplification, and rearrangement of this gene that are associated with myxoid liposarcoma suggests a role in adipogenesis and mesenchymal differentiation. A gene knock out study of the mouse counterpart demonstrated that this gene is involved in diet-induced obesity. Recombinant human HMGA2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT, 250mM Imidazole
Molecular Mass	12.8 kDa (117aa)

 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

AA Sequence	MSARGEAGAGQ PSTSAQGQPA APAPQKRGRG RPRKQQQEPT GEPSPKRPRG RPKGSKNKSP SKAAQKKAEA TGEKRPRGRP RKWPQQVVQK KPAQEETEET SSQESAEEDL EHHHHHH
Purity	>80% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	HMGA2 high mobility group AT-hook 2 [Homo sapiens]
Official Symbol	HMGA2
Synonyms	HMGA2; high mobility group AT-hook 2; high mobility group (nonhistone chromosomal) protein isoform I C , HMGIC; high mobility group protein HMGI-C; BABL; LIPO; High-mobility group protein HMGI-C; high mobility group AT-hook protein 2; high-mobility group (nonhistone chromosomal) protein isoform I-C; HMGIC; HMGI-C; STQTL9;
Gene ID	8091
mRNA Refseq	NM_003483
Protein Refseq	NP_003474
MIM	600698

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UniProt ID	P52926
Chromosome Location	12q15
Pathway	Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem;
Function	5-deoxyribose-5-phosphate lyase activity; AT DNA binding; AT DNA binding; C2H2 zinc finger domain binding; DNA binding; DNA binding; DNA binding, bending; DNA binding, bending; DNA-(apurinic or apyrimidinic site) lyase activity; DNA-dependent protein kina

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