
Product Data Sheet

Product Name: HMGA1 Human
 Cat. No.: GP23655
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	High mobility group protein HMG-I/HMG-Y; HMG-I(Y); High mobility group AT-hook protein 1; High mobility group protein A1; High mobility group protein R ; HMGA1; HMGIY; HMG-R; HMGA1A.		
Amino Acid Sequence	MSESSSKSSQ PLASKQEKDG TEKRGRGRPR KQPPVSPGTA LVGSQKEPSE VPTPKRPRGR PKGSKNKGAA KTRKTTTTTPG RKPRGRPKKL EKEEEEGISQ ESSEEEQLEH HHHHH.		
Formulation	HMGA1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 50% glycerol and 0.2M NaCl.		

Introduction

High mobility group protein HMG-I/HMG-Y (HMGA1) belongs to the non-histone chromosomal high mobility group protein (HMG) family. HMGA1 is composed of a highly conserved AT-hook DNA-binding domain which mediates binding to AT-rich sequences in the minor groove of chromosomal DNA. HMGA1 functions as an architectural chromatin-binding transcription factor modifying the conformation of DNA by modulating nuclear protein-DNA complexes. Furthermore, HMGA1 is involved in numerous cellular processes including growth regulation, viral induction of beta-IFN gene and regulation of inducible gene transcription.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

HMGA1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

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chain containing 115 amino acids (1-107 a.a.) and having a molecular mass of 12.7kDa (Molecular weight on SDS-PAGE will appear higher).HMGA1 is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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