

HMGA1 Human

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

Catalog #: PRPS-894

For research use only.

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.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MSESSEKSSQ PLASKQEKDG TEKRGRGRPR KQPPVSPGTA
LVGSQKEPSE VPTPKRPRGR PKGSKNKGAA KTRKTTTTPG RKPRGRPKKL EKEEEEGISQ
ESSEEEQLEH HHHHH.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

HMGA1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 50% glycerol and 0.2M NaCl.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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