Product information

HMGA1, 1-107 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1140

Full name: High mobility group protein HMG-I/HMG-Y

NCBI Accession No.: NP_665906

Synonyms: HMG-R, HMGA1A, HMGIY

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. Recombinant human HMGA1 protein, fused to His-tag at C-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

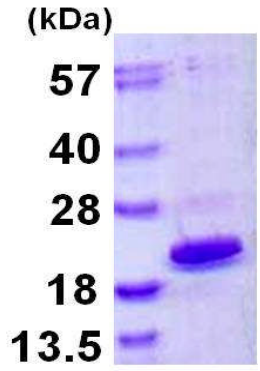
Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 50% glycerol, 0.2M NaCl

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)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MSESSSKSSQ PLASKQEKDG TEKRGRGRPR KQPPVSPGTA LVGSQKEPSE VPTPKRPRGR PKGSKNKGAA KTRKTTTTPG RKPRGRPKKL EKEEEEGISQ ESSEEEQLEH HHHHH

General references:

Chiappetta G., *et al.* (2004) *Clin Cancer Res.* 10(22):7637-44.

Massaad Massade L., *et al.* (2002) *Biochemistry.* 41:2760-2768.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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