

AR39080PU-L

Human HMGA1 / HMGIY (1-107, His-tag) - Purified

Alternate names:

High mobility group AT-hook protein 1, High mobility group protein A1, High mobility group protein HMG-I/HMG-Y, High mobility group protein R

Quantity:

0.25 mg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[P17096](#)

NCBI:

[NP_002122](#)

GenelD:

[3159](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90%

Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 50% glycerol, 0.2M NaCl

Description:

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

AA Sequence:

MSESSSKSSQ PLASKQEKDG TEKRGRGRPR KQPPVSPGTA LVGSQKEPSE VPTPKRPRGR
PKGSKNKGAA KTRKTTTTPG RKPRGRPKKL EKEEEEGISQ ESSEEEQLEH_HHHHH

Molecular weight: 12.7 kDa (115aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher).

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

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

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

Pictures:

Recombinant human HMGA1, 1-107 aa,
His-tagged

