

Recombinant human HMGA1 protein

Catalog Number: ATGP1140

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-107aa

UniProt No.

P17096

NCBI Accession No.

NP_665906.1

Alternative Names

High mobility group protein HMG-I/HMG-Y, HMG-R, HMGA1A, HMG1Y

PRODUCT SPECIFICATION

Molecular Weight

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

Concentration

0.25mg/ml (determined by BCA assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50% glycerol, 0.2M NaCl

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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-

Recombinant human HMGA1 protein

Catalog Number: ATGP1140

tag at C-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

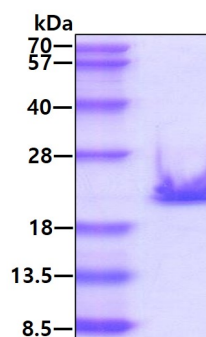
MSESSSKSSQ PLASKQEKDG TEKRGRGRPR KQPPVSPGTA LVGSQKEPSE VPTPKRPRGR PKGSKNKGAA KTRKTTTTTPG
RKPRGRPKKL EKEEEEGISQ ESSEEEQ<LEH HHHHH>

General References

Chiappetta G., et al. (2004) *Clin Cancer Res.* 10(22):7637-44.
Massaad Massade L., et al. (2002) *Biochemistry.* 41:2760-2768.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.