Recombinant human HMGA1 protein

Catalog Number: ATGP1140

PRODUCT INPORMATION

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, HMGIY

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-

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

Amino acid Sequence

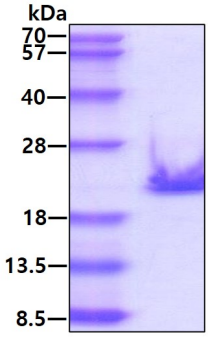
MSESSSKSSQ PLASKQEKDG TEKRGRGRPR KQPPVSPGTA LVGSQKEPSE VPTPKRPRGR PKGSKNKGAA KTRKTTTTPG RKPRGRPKKL EKEEEEGISQ ESSEEEQ<LEH HHHHH>

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



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