Recombinant human ASF1A protein

Catalog Number: ATGP0296

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-204aa

UniProt No.
Q9Y294

NCBI Accession No.
NP_054753.1

Alternative Names
ASF1 anti-silencing function 1 homolog A, Histone chaperone ASF1A, CCG1-interacting factor A (CIA), CGI-98, HSPC146, ASF1 anti-silencing function 1 homolog A Anti silencing function 1A, ASF1 anti silencing function 1 homolog A, CCG1 interacting factor A, CGI 98, CIA, hAsf1, hAsf1a, hCIA, Histone chaperone ASF1A,

PRODUCT SPECIFICATION

Molecular Weight
27 kDa (240aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT , 10% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

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
Histone chaperone ASF1A, CCG1-interacting factor A (CIA), CGI-98, HSPC146 Description ASF1 anti-silencing function 1 homolog A, also known as ASF1A, belongs to H3/H4 family of histone chaperone proteins. ASF1A

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protein interacts with histones H3 and H4, and functions together with a chromatin assembly factor during DNA replication and repair. Deletion of ASF1A in yeast and Drosophila confers sensitivity to various DNA damaging agents and inhibitors of DNA replication, increases genomic instability and sister chromatid exchange, and activates the DNA damage checkpoint. Recombinant human ASF1A, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

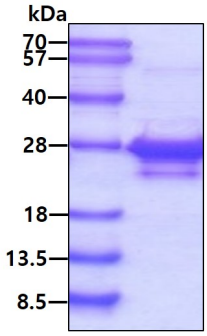
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MAKV QVNNVVVLDN PSPFYNPFQF EITFECIEDL SEDLEWKIIY VGSAESEEYD QVLDSVLVGP VPAGRHMFVF QADAPNPGLI PDADAVGVTV VLITCTYRGQ EFIRVGYYVN NEYTETELRE NPPVKPDFSK LQRNILASNP RVTRFHINWE DNTEKLEDAE SSNPNLQSLL STDALPSASK GWSTSENSLN VMLESHMDCM

General References

Sanematsu F., et al. (2006). J Biol Chem. 281(19):13817-27
Groth A., et al. (2005). Mol Cell. 17(2):301-11

DATA

SDS-PAGE



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