

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

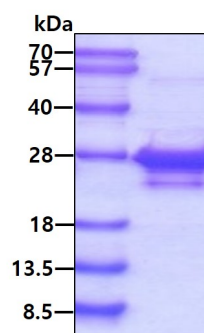
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MAKV QVNNVVLDN PSPFYNPFQF EITFECIEDL
SEDLWKIY VGSAESEEYD QVLDSVLVGP VPAGRHMVFV QADAPNPGLI PDADAVGVTV VLITCTYRGQ EFIRVGYVYN
NEYTETELRE NPPVKPDFSK LQRNILASNP RVTRFHINWE DNTEKLEDAE SSNPNLQSLI STDALPSASK GWSTSENSLN
VMLESHMDCM

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



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