

Recombinant human DFF45/ICAD protein

Catalog Number: ATGP0368

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-331aa

UniProt No.

O00273

NCBI Accession No.

AAH07721.1

Alternative Names

DNA fragmentation factor subunit alpha., FF-45, DFF1, ICAD, DNA fragmentation factor subunit alpha, A330085O09Rik, ICAD L, ICAD S, DFF 1, Caspase activated deoxyribonuclease inhibitor short form, DFF 45, DFF alpha, DFF35, DFF45, DFFA, Caspase-activated deoxyribonuclease inhibitor short form, Dffa DNA fragmentation factor, alpha subunit, DNA fragmentation factor 45 kDa subunit, DNA Fragmentation Factor Alpha Subunit, DNA fragmentation factor subunit alpha, DNA fragmentation factor, 45 kD, alpha subunit, DNA fragmentation factor, 45kDa, alpha polypeptide, DNA fragmentation factor, 45kDa, alpha polypeptide (DFFA), transcript variant 1, RP23 121D17.3, DNA fragmentation factor, alpha subunit, DNAation factor 45 kDa subunit, H13, Inhibitor of CAD, Inhibitor of Caspase Activated DNase, MGC143066, OTTHuMP00000001903, OTTHuMP00000001904,

PRODUCT SPECIFICATION

Molecular Weight

38.7 kDa (351aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

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

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

Recombinant human DFF45/ICAD protein

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Description

DNA fragmentation factor (DFF) is a heterodimeric protein of 40-kD (DFFB) and 45-kD (DFFA) subunits. DFFA, also known as DNA fragmentation factor subunit alpha, is the substrate for caspase-3 and triggers DNA fragmentation during apoptosis. DFF becomes activated when DFFA is cleaved by caspase-3. The cleaved fragments of DFFA dissociate from DFFB, the active component of DFF. DFFB has been found to trigger both DNA fragmentation and chromatin condensation during apoptosis. Recombinant DFFA protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

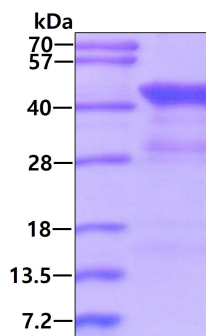
<MGSSHHHHH SSGLVPRGSH> MEVTGDAGVP ESGEIRTLKP CLLRRNYSRE QHGVAASCLE DLRSKACDIL
AIDKSLTPVT LVLAEDGTIV DDDDYFLCLP SNTKFVALAS NEKWAYNNSD GGTAWISQES FDVDETDGA GLKWKNVARQ
LKEDLSSIIIL LSEEDLQMLV DAPCSDLAQE LRQSCATVQR LQHTLQQVLD QREEVRQSKQ LLQLYLQALE KEGSLLSKQE
ESKAAFGEEV DAVDTGISRE TSSDVALASH ILTALREKQA PELSLSSQDL ELVTKEDPKA LAVALNWDIK KTETVQEACE
WELALRLQQT QSLHSLRSIS ASKASPPGDL QNPKRARQDP T

General References

McCarty JS., et al. (1999) *Biochem Biophys Res Commun.* 264(1):176-80.
Gu J., et al. (1999) *J Biol Chem.* 274(30):20759-62.

DATA

SDS-PAGE



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