

# Product information



## DFFA, 1-331 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0368

**Full Name:** DNA fragmentation factor subunit alpha.

**NCBI Accession No.:** AAH07721

**Synonyms:** FF-45, DFF1, ICAD

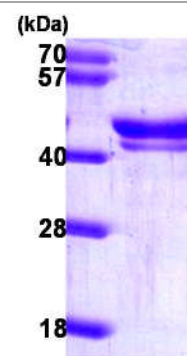
**Description:** DNA fragmentation factor (DFF) is a heterodimeric protein of 40-kD (DFFB) and 45-kD (DFFA) subunits. DFFA, also known as DNA fragmentation factor subunit alpha, is the substrate for caspase-3 and triggers DNA fragmentation during apoptosis. DFF becomes activated when DFFA is cleaved 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.

**Form:** Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol  
1mM DTT.

**Molecular Weight:** 38.7 kDa (351aa)

**Purity:** > 90% by SDS – PAGE

**Concentration:** 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MEVTGDAGVP ESGEIRTLKP CLLRRNYSRE QHGVAASCLE DLRSKACDIL AIDKSLTPVT LVLAEDGTIV  
DDDDYFLCLP SNTKFVALAS NEKWAYNSD GGTAWISQES FDVETDSGA GLKWKNVARQ LKEDLSSII L LSEEDLQMLV DAPCSDLAQE  
LRQSCATVQR LQHTLQQVLD QREEVRQSKQ LLQLYLQALE KEGSLLSKQE ESKAAFGEV DAVDTGISRE TSSDVALASH ILTALREKQA  
PELSLSSQDL ELVTKEPKA 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.

**WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.**

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**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

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