Recombinant Human DFFA

Cat. No. DFFA-488H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant DFFA protein was expressed in*E.coli*and purified by using conventional chromatography techniques. MW=38.7 kDa (351aa).
Species	Human
Source	E.coli
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.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MEVTGDAGVP ESGEIRTLKP CLLRRNYSRE QHGVAASCLE DLRSKACDIL AIDKSLTPVT LVLAEDGTIV DDDDYFLCLP SNTKFVALAS NEKWAYNNSD GGTAWISQES FDVDETDSGA GLKWKNVARQ LKEDLSSIIL LSEEDLQMLV DAPCSDLAQE LRQSCATVQR LQHTLQQVLD QREEVRQSKQ LLQLYLQALE KEGSLLSKQE ESKAAFGEEV DAVDTGISRE TSSDVALASH ILTALREKQA PELSLSSQDL ELVTKEDPKA LAVALNWDIK KTETVQEACE WELALRLQQT QSLHSLRSIS ASKASPPGDL QNPKRARQDP T.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol 1mM DTT.
Purity	> 90% by SDS – PAGE.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

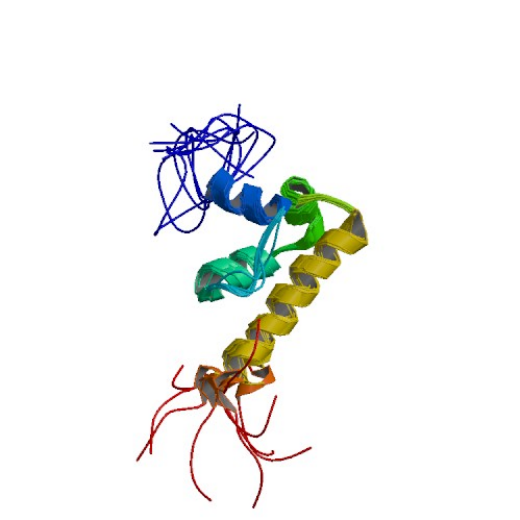
Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	DFFA DNA fragmentation factor, 45kDa, alpha polypeptide [Homo sapiens]
Synonyms	DFFA; DNA fragmentation factor, 45kDa, alpha polypeptide; DFF1; ICAD; DFF-45; DFF45; ICAD; DFF1; DNA fragmentation factor subunit alpha; DNA fragmentation factor 45 kDa subunit; Inhibitor of CAD; DFF45; H13; OTTHUMP00000001903; OTTHUMP00000001904; DNA fragmentation factor, 45 kD, alpha subunit
Gene ID	1676
mRNA Refseq	NM_004401
Protein Refseq	NP_004392
MIM	601882
UniProt ID	O00273
Chromosome Location	1p36.3-p36.2
Pathway	Apoptosis
Function	caspase-activated deoxyribonuclease activity; identical protein binding

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

PDB rendering based on 1iyr.



Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA