

Recombinant Human DFFA

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

SPECIFICATION

Product Overview	Recombinant DFFA protein was expressed in <i>E.coli</i> 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 SGLVPRGSH MEVTGDAGVP ESGEIRTLKP CLLRRNYSRE QHGVAASCLE DLRSKACDIL AIDKSLTPVT LVLAEDGTIV DDDDYFLCLP SNTKFVALAS NEKWAYNNSD GGTAWISQES FDVDETDSGA GLKWKNVARQ LKEDLSSIIL LSEEDLQMLV DAPCSDLAQE LRQSCATVQR LQHTLQQVLD QREEVRQSKQ LLQLYLQALE KEGSLLSKQE ESKAAFGEV 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

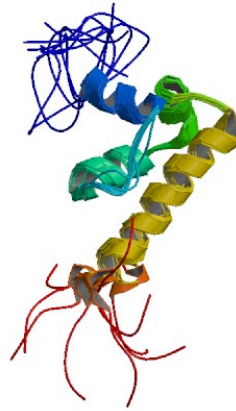
Function caspase-activated deoxyribonuclease activity; identical protein binding

 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 1iyf.



 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