Recombinant Human DFFA, His-tagged

Cat. No. DFFA-27566TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ICAD recombinant full length protein (Human), with an N-terminal His-tag, ~48kDa.
Species	Human
Source	E.coli
Description	Apoptosis is a cell death process that removes toxic and/or useless cells during mammalian development. The apoptotic process is accompanied by shrinkage and fragmentation of the cells and nuclei and degradation of the chromosomal DNA into nucleosomal units. DNA fragmentation factor (DFF) is a heterodimeric protein of 40-kD (DFFB) and 45-kD (DFFA) subunits. DFFA 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. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Conjugation	HIS
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 50% Glycerol, PBS
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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Sequence Similarities	Contains 1 CIDE-N domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	DFFA DNA fragmentation factor, 45kDa, alpha polypeptide [Homo sapiens]
Official Symbol	DFFA
Synonyms	DFFA; DNA fragmentation factor, 45kDa, alpha polypeptide; DNA fragmentation factor, 45 kD, alpha polypeptide; DNA fragmentation factor subunit alpha; DFF 45; DFF1; DFF45; DNA fragmentation factor; 45 kD; alpha subunit; ICAD;
Gene ID	1676
mRNA Refseq	NM_004401
Protein Refseq	NP_004392
MIM	601882
Uniprot ID	O00273
Chromosome Location	1p36.3-p36.2
Pathway	Activation of DNA fragmentation factor, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Apoptosis, organism-specific biosystem;

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Function	deoxyribonuclease activity;

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