

Recombinant Human DFFB protein, His & T7-tagged

Cat. No. DFFB-1446H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DFFB aa. (Arg87~Lys323 (Accession # O76075)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Arg87~Lys323
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. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene but the biological validity of some of these variants has not been determined.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.9kDa.

 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

Endotoxin	<1.0EU per 1g (determined by the LAL method).
Purity	>95%
Characteristic	The isoelectric point is 8.4.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	DFFB DNA fragmentation factor subunit beta [Homo sapiens (human)]
Official Symbol	DFFB
Synonyms	CAD; CPAN; DFF2; DFF40; DFF-40; DNA fragmentation factor 40 kDa subunit; DNA fragmentation factor, 40kDa, beta polypeptide (caspase-activated DNase); caspase-activated DNase; caspase-activated deoxyribonuclease; caspase-activated nuclease; DNA fragmentation factor subunit beta

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Gene ID	1677
mRNA Refseq	NM_001282669.1
Protein Refseq	NP_001269598.1
UniProt ID	O76075
SDS-PAGE	