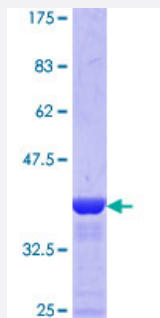


# DFFA (Human) Recombinant Protein (Q01)

Catalog # H00001676-Q01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human DFFA partial ORF ( NP_004392.1, 231 a.a. - 331 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	TSSDVALASHILTALREKQAPELSLSSQDLELVTKEDPKALAVALNWDIKKTETVQEACERELALRLQQTQSLHSLRSISASKASPPGDLQNPKRARQDPT
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	36.85
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — DFFA

Entrez GeneID [1676](#)

GeneBank Accession# [NM\\_004401](#)

Protein Accession# [NP\\_004392.1](#)

Gene Name DFFA

Gene Alias DFF-45, DFF1, ICAD

Gene Description DNA fragmentation factor, 45kDa, alpha polypeptide

Omim ID [601882](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** 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. [provided by RefSeq]

**Other Designations** DFF45|DNA fragmentation factor, 45 kD, alpha polypeptide|DNA fragmentation factor, 45 kD, alpha subunit|OTTHUMP00000001903|OTTHUMP00000001904

## Pathway

- [Apoptosis](#)

## Disease

- [Celiac Disease](#)
- [Genetic Predisposition to Disease](#)