DFFA Protein, Human (GST)

Cat. No.:	HY-P700499
Synonyms:	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;
Species:	Human
Source:	E. coli
Accession:	O00273 (M1-T331)
Gene ID:	1676
Molecular Weight:	63.6 kDa

PROPERTIES

AA Sequence	M E V T G D A G V P E S G E I R T L K P C L L R R N Y S R E Q H G V A A S C L E D L R S K A C D I L A I D K S L T P V T L V L A E D G T I V D D D D Y F L C L P S N T K F V A L A S N E K W A Y N N S D G G T A W I S Q E S F D V D E T D S G A G L K W K N V A R Q L K E D L S S I I L L S E E D L Q M L V D A P C S D L A Q E L R Q S C A T V Q R L Q H T L Q Q V L D Q R E E V R Q S K Q L L Q L Y L Q A L E K E G S L L S K Q E E S K A A F G E E V D A V D T G I S R E T S S D V A L A S H I L T A L R E K Q A P E L S L S S Q D L E L V T K E D P K A L A V A L N W D I K K T E T V Q E A C E W E L A L R L Q Q T Q S L H S L R S I S A S K A S P P G D L Q N P K R A R Q D P T
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	DNA fragmentation factor subunit alpha DNA (DFFA), also known as Caspase-activated DNase inhibitor (ICAD), is a human protein encoded by the DFFA gene. DFFA and DFFB are subunits of DNA break factor (DFF), substrates of caspase-3 that trigger DNA break during apoptosis. The C-terminal domain of DFFA (DFF-C) consists of four alpha-helices folded into a helical arrangement, with alpha-2 and alpha-3 arranged on a long C-terminal helix (alpha-4). The main function of this

domain is to bind to the C-terminal catalytic domain of DFFB through ionic interactions, thereby inhibiting DNA breakage during apoptosis. DFFA plays an important role in cancer development[1][2][3][4].

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