

Product datasheet for PH302879

ICAD (DFFA) (NM_004401) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DFFA MS Standard C13 and N15-labeled recombinant protein (NP_004392)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202879
Predicted MW:	36.6 kDa
Protein Sequence:	>RC202879 protein sequence Red=Cloning site Green=Tags(s) MEVTGDAGVPESGEIRTLKPCLLRRNYSREQHGVAASCLEDLRSKACDIL AIDKSLTPVTLVLAEDGTIV DDDDYFLCLPSNTKFVALASNEKWAYNNSDGGTAWISQESFDVDETD SGAGLKWKNVARQLKEDLSSII L LSEEDLQMLVDAPCSDLAQELRQSCATVQRLQHTLQQVLDQREEVRQSKQLLQLYLQALEKEGSLLSKQE ESKAAFGEEVDAVDTGISRETSSDVALASHIL TALREKQAPELSLSSQDLELVTKEDPKALAVLNWDIK KTETVQEACEWELALRLQQTQSLHSLRSISASKASPPGDLQNPKRARQDPT TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004392
RefSeq Size:	2053
RefSeq ORF:	993
Synonyms:	DFF-45; DFF1; ICAD
Locus ID:	1676



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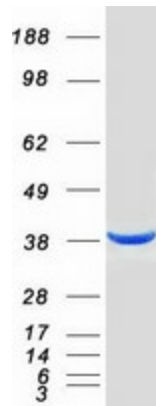
UniProt ID: [O00273](#)

Cytogenetics: 1p36.22

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, Jul 2008]

Protein Pathways: Apoptosis

Product images:



Coomassie blue staining of purified DFFA protein (Cat# [TP302879]). The protein was produced from HEK293T cells transfected with DFFA cDNA clone (Cat# [RC202879]) using MegaTran 2.0 (Cat# [TT210002]).