

Recombinant Human DAP3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DAP3-6475H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DAP3 MS Standard C13 and N15-labeled recombinant protein (NP_387506) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein that also participates in apoptotic pathways which are initiated by tumor necrosis factor-alpha, Fas ligand, and gamma interferon. This protein potentially binds ATP/GTP and might be a functional partner of the mitoribosomal protein S27. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. Pseudogenes corresponding to this gene are found on chromosomes 1q and 2q.
Molecular Mass	45.4 kDa

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AA Sequence	MMLKGITRLISRIHKLDPGRFLHMGQTQARQSIAAHLDNQVPVESPRASRTNENDPAK HGDQHEGQHYNISPQDLETVPFPHGLPPRFVMQVKTFSEACLMVRKPALELLHYLKN TSFAYPAIRYLLYGEKGTGKTLSLCHVIHFCAKQDWLILHIPDAHLWVKNCRDLLQSS YNKQRFDPLEASTWLKNFKTTNERFLNQIKVQEKYVWNKRESTEKGSPLGEVVEQ GITRVRNATDAVGIVLKEKLRQSSLGMFHLVAVDGINALWGRTTLKREDKSPIAPEE LALVHNLRKMMKNDWHGGAIVSALSQTGSLFKPRKAYLPQELLGKEGFDALDPFIPI LVSNNPKFEFESCIQYYLENNWLQHEKAPTEEGKKELLFLSNANPSLLERHCAYLTR TRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	DAP3 death associated protein 3 [Homo sapiens (human)]
Official Symbol	DAP3
Synonyms	DAP3; death associated protein 3; 28S ribosomal protein S29, mitochondrial; bMRP 10; DAP 3; DKFZp686G12159; MGC126058; MGC126059; mitochondrial 28S ribosomal protein S29; MRP S29; MRPS29; S29mt; death-associated protein 3; ionizing radiation resistance conferring protein; DAP-3; MRP-S29; bMRP-10; FLJ12817;

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Gene ID 7818

mRNA Refseq NM_033657

Protein Refseq NP_387506

MIM 602074

UniProt ID P51398

SDS-PAGE



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