

Product datasheet for PH323182

OriGene Technologies, Inc.

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DAP3 (NM 033657) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: DAP3 MS Standard C13 and N15-labeled recombinant protein (NP_387506)

Species: Human **HEK293 Expression Host: Expression cDNA Clone**

or AA Sequence:

RC223182

Predicted MW: 45.4 kDa

>RC223182 representing NM_033657 **Protein Sequence:**

Red=Cloning site Green=Tags(s)

MMLKGITRLISRIHKLDPGRFLHMGTQARQSIAAHLDNQVPVESPRAISRTNENDPAKHGDQHEGQHYNI SPQDLETVFPHGLPPRFVMQVKTFSEACLMVRKPALELLHYLKNTSFAYPAIRYLLYGEKGTGKTLSLCH VIHFCAKQDWLILHIPDAHLWVKNCRDLLQSSYNKQRFDQPLEASTWLKNFKTTNERFLNQIKVQEKYVW NKRESTEKGSPLGEVVEQGITRVRNATDAVGIVLKELKRQSSLGMFHLLVAVDGINALWGRTTLKREDKS PIAPEELALVHNLRKMMKNDWHGGAIVSALSQTGSLFKPRKAYLPQELLGKEGFDALDPFIPILVSNYNP

KEFESCIQYYLENNWLQHEKAPTEEGKKELLFLSNANPSLLERHCAYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 387506

RefSeg Size: 1650 RefSeq ORF: 1194

Synonyms: bMRP-10; DAP-3; MRP-S29; MRPS29; S29mt

Locus ID: 7818





Cytogenetics:

UniProt ID: <u>P51398</u>

Summary: 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 factoralpha, 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

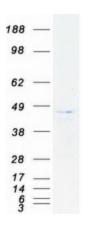
corresponding to this gene are found on chromosomes 1q and 2q. [provided by RefSeq, Dec

2010]

1q22

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified DAP3 protein (Cat# [TP323182]). The protein was produced from HEK293T cells transfected with DAP3 cDNA clone (Cat# [RC223182]) using MegaTran 2.0 (Cat# [TT210002]).