

Recombinant Full Length Human DDHD1 Protein, C-Flag-tagged

Cat. No. DDHD1-2196HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DDHD1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene is a member of the intracellular phospholipase A1 gene family. The protein encoded by this gene preferentially hydrolyzes phosphatidic acid. It is a cytosolic protein with some mitochondrial localization, and is thought to be involved in the regulation of mitochondrial dynamics. Overexpression of this gene causes fragmentation of the tubular structures in mitochondria, while depletion of the gene results in mitochondrial tubule elongation. Deletion of this gene in male mice caused fertility defects, resulting from disruption in the organization of the mitochondria during spermiogenesis. In humans, mutations in this gene have been associated with hereditary spastic paraplegia (HSP), also known as Strumpell-Lorrain disease, or, familial spastic paraparesis (FSP). This inherited disorder is characterized by progressive weakness and spasticity of the legs. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	96.9 kDa

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AA Sequence

MNYPGRGSPRSPEHNGRGGGGGAWELGSDARPAFGGGVCCFEHLPGGDPDDGD
 VPLALLRGEPGLHLAPG TDDHNHHLALDPCLSDENYDFSSAESGSSLRYYSEGESG
 GGGSSLSLHPPQQPPLVPTNSGGGGATGGSP GERKRTRLGGPAARHRYEVVTEL
 GPPEVRWFYKEDKKTWKPFIFYDSLRIELAFRTLLQTTGARPQGGDR DGDHVCSP
 TGPASSSGEDDDEDACGFCQSTTGHEPEMVELVNIEPVCVRGGGLYEVDVTQGEC
 YPVYWNQ ADKIPVMRGQWFIDGTWQPLEEEESNLIEQEHLCFRGQQMQENFDIE
 VSKSIDGKDAVHSFKLSRNHVD WHSVDEVYLYSDATTSKIARTVTQKLGFSSKASSS
 GTRLHRGYVEEATLEDKPSQTTHIVFVVGIGQKMD QGRIIKNTAMMREAARKIEER
 HFSNHATHVEFLPVEWRSKLTLDGDTVDSITPDKVRGLRDMLNSSAMDI MYYTSPL
 YRDELVKGLQQELNRLYSLFCSRNPDFEEKGGKVSIVSHSLGCVITYDIMTGWNPVR
 LYEQLL QKEEELPDERWMSYEERHLLDELYITKRRLKEIEERLHGLKASSMTQTPAL
 KFKVENFFCMGSPLAVFLA LRGIRPGNTGSQDHILPREICNRLNIFHPTDPVAYRLE
 PLILKRYSNISPVQIHWYNTSNPLPYEHMKP SFLNPAKEPTSVSENEGISTIPSPVTS
 PVLSSRRHYGESITNIGKASILGAASIGKGLGGMLFSRFRGSST TQSSETSKDSMEDE
 KKPVASPSATTVGTQTLPHSSSGFLDSALELDHRIDFELREGLVESRYWSAVTSHT A
 YWSSLDVALFLLTFMYKHEHDDDAKPNLDPI TRTRPLEQKLISEEDLAANDILDYKDD
 DDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining.

Stability

Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage

Store at -80 centigrade.

Concentration

>50 ug/mL as determined by microplate BCA method.

Preparation

Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

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Full Length
Full L.

GENE INFORMATION

Gene Name DDHD1 DDHD domain containing 1 [Homo sapiens (human)]

Official Symbol DDHD1

Synonyms SPG28; PAPLA1; iPLA1I; PA-PLA1; iPLA1alpha

Gene ID 80821

mRNA Refseq NM_030637.3

Protein Refseq NP_085140.2

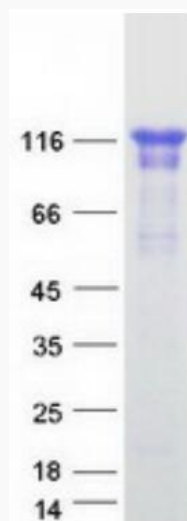
MIM 614603

UniProt ID Q8NEL9

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Coomassie blue staining of purified DDHD1 protein.

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