

AFG3-like protein 2 Recombinant Protein | AFG3L2 recombinant protein

Recombinant Human AFG3-like protein 2

CATALOG # AAA116162	HOST E Coli
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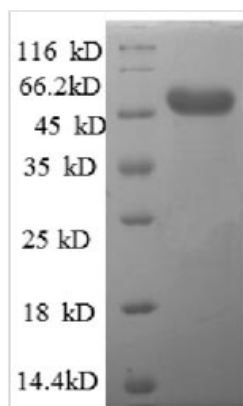
PRODUCT SYNONYMS

AFG3-like protein 2; Recombinant Human AFG3-like protein 2; Paraplegin-like protein; AFG3L2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Liquid containing glycerol
Sequence Positions	550-759aa; Partial
Sequence	ERVIGGLEKK TQVLQPEEKK TVAYHEAGHA VAGWYLEHAD PLLKVSIIIPR GKGLGYAQL PKEQYLYTKE QLLDRMCMTL GGRVSEEIFF GRITGAQDD LRKVTQSAYA QIVQFGMNEK VGQISFDLPR QGDMVLEKPY SEATARLIDD EVRILINDAY KRTVALLTEK KADVEKVALL LLEKEVL DKN DMVELLGPRP FAEKSTYE EF
Sequence Length	797
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for AFG3L2 recombinant protein	ATP-dependent protease which is essential for axonal development.
Product Categories/Family for AFG3L2 recombinant protein	Metabolism

References	Identification and characterization of AFG3L2, a novel paraplegin-related gene.Banfi S., Bassi M.T., Andolfi G., Marchitelli A., Zanotta S., Ballabio A., Casari G., Franco B.Genomics 59:51-58(1999) Loss of m-AAA protease in mitochondria causes complex I deficiency and increased sensitivity to oxidative stress in hereditary spastic paraplegia.Atorino L., Silvestri L., Koppen M., Cassina L., Ballabio A., Marconi R., Langer T., Casari G.J. Cell Biol. 163:777-787(2003) Variable and tissue-specific subunit composition of mitochondrial m-AAA protease complexes linked to hereditary spastic paraplegia.Koppen M., Metodiev M.D., Casari G., Rugarli E.I., Langer T.Mol. Cell. Biol. 27:758-767(2007) Initial characterization of the human central proteome.Burkard T.R., Planyavsky M., Kaupe I., Breitwieser F.P., Buerckstuehmer T., Bennett K.L., Superti-Furga G., Colinge J.BMC Syst. Biol. 5:17-17(2011) An enzyme assisted RP-RPLC approach for in-depth analysis of human liver phosphoproteome.Bian Y., Song C., Cheng K., Dong M., Wang F., Huang J., Sun D., Wang L., Ye M., Zou H.J. Proteomics 96:253-262(2014) Northeast structural genomics consortium target HR6741A.Northeast structural genomics consortium (NESG) Submitted (MAR-2012) to the PDB data bankEarly onset and slow progression of SCA28, a rare dominant ataxia in a large four-generation family with a novel AFG3L2 mutation.Edener U., Wollner J., Hehr U., Kohl Z., Schilling S., Kreuz F., Bauer P., Bernard V., Gillesse-Kaesbach G., Zuhlke C.Eur. J. Hum. Genet. 18:965-968(2010) Missense mutations in the AFG3L2 proteolytic domain account for approximately 1.5% of European autosomal dominant cerebellar ataxias.Cagnoli C., Stevanin G., Brussino A., Barberis M., Mancini C., Margolis R.L., Holmes S.E., Nobili M., Forlani S., Padovan S., Pappi P., Zaros C., Leber I., Ribai P., Pugliese L., Assalto C., Brice A., Migone N., Durr A., Brusco A.Hum. Mutat. 31:1117-1124(2010) Mutations in the mitochondrial protease gene AFG3L2 cause dominant hereditary ataxia SCA28.Di Bella D., Lazzaro F., Brusco A., Plumari M., Battaglia G., Pastore A., Finardi A., Cagnoli C., Tempia F., Frontali M., Veneziano L., Sacco T., Boda E., Brussino A., Bonn F., Castellotti B., Baratta S., Mariotti C., Gellera C., Fracasso V., Magri S., Langer T., Plevani P., Di Donato S., Muzi-Falconi M., Taroni F.Nat. Genet. 42:313-321(2010) Whole-exome sequencing identifies homozygous AFG3L2 mutations in a spastic ataxia-neuropathy syndrome linked to mitochondrial m-AAA proteases.Pierson T.M., Adams D., Bonn F., Martinelli P., Cherukuri P.F., Teer J.K., Hansen N.F., Cruz P., Mullikin J.C., Blakesley R.W., Golas G., Kwan J., Sandler A., Fuentes Fajardo K., Markello T., Tift C., Blackstone C., Rugarli E.I., Langer T., Gahl W.A., Toro C.PLoS Genet. 7:E1002325-E1002325(2011)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	300192933
NCBI GeneID	10939
NCBI Accession #	NP_006787.2
NCBI GenBank Nucleotide #	NM_006796.2
UniProt Accession #	Q9Y4W6; Q6P1L0
Molecular Weight	50.8 kDa
NCBI Official Full Name	AFG3-like protein 2
NCBI Official Synonym Full Names	AFG3-like AAA ATPase 2
NCBI Official Symbol	AFG3L2
NCBI Official Synonym Symbols	SCA28; SPAX5
NCBI Protein Information	AFG3-like protein 2
UniProt Protein Name	AFG3-like protein 2
UniProt Gene Name	AFG3L2
UniProt Entry Name	AFG32_HUMAN

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