

Recombinant Human FIG4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FIG4-3828H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FIG4 MS Standard C13 and N15-labeled recombinant protein (NP_055660) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene belongs to the SAC domain-containing protein gene family. The SAC domain, approximately 400 amino acids in length and consisting of seven conserved motifs, has been shown to possess phosphoinositide phosphatase activity. The yeast homolog, Sac1p, is involved in the regulation of various phosphoinositides, and affects diverse cellular functions such as actin cytoskeleton organization, Golgi function, and maintenance of vacuole morphology. Membrane-bound phosphoinositides function as signaling molecules and play a key role in vesicle trafficking in eukaryotic cells. Mutations in this gene have been associated with Charcot-Marie-Tooth disease, type 4J.
Molecular Mass	103.6 kDa
AA Sequence	MPTAAAPIISSVQKLVLVYETRARYFLVGSNNAETKYRVLKIDRTEPKDLVIIDDRHVYT QQEVRELLGRLDLGNRTKMGQKGSSGLFRAVSAFGVVGFVRFLEGYYIVLITKRRK MADIGGHAIIYKVEDTNMIYIPNDSVRVTHPDEARYLRIFQNVDLSSNFYFSYSYDLSH SLQYNLTVLRMPLEMLKSEMTQNRQESFDIFEDEGLITQGGSGVFGICSEPVMKYV

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WNGELLDIIKSTVHRDWLLYIIHGFCGQSKLLIYGRPYYVTIARRSSKFAGTRFLKRG
 ANCEGDVANEVETEQILCDASVMSFTAGSYSSYVQVRGSVPLYWSQDISTMMPKPP
 ITLDQADPFAHVAALHFDQMFQRFSGSPIIILNLVKEREKRKHERILSEELVAAVTYLNQ
 FLPPEHTIVYIPWDMAKYTKSKLCNVLDRLNVIAESVVKKTGFFVNRPDSCSYCSILRPD
 EKWNELGGCVIPTGRLQTGILRTNCVDCLDRTNTAQFMVGKCALAYQLYSLGLIDKP
 NLQFDTDAVRLFEELYEDHGDTLQLYGGSQLVHRVKTYRKIAPWTQHSKDQMQL
 SRYYSNAFSDADRQDSINLFLGVFHPTEGKPHLWELPTDFYLHHKNTMRLLPTRRS
 YTYWWTPPEVIKHLPLPYDEVICAVNLKKLIVKKFKHKEYEEIDIHNEFFRPYELSSFDDT
 FCLAMTSSARDFMPKTVGIDPSPFTVRKPDETGKSVLGNKSNREEAVLQRKTAASA
 PPPPSEEAVSSSEDDSGTDREEEGSVSQRSTPVKMTDAGDSAKVTENVVQPMKE
 LYGINLSDGLSEEDFSIYSRFVQLGQSQHKQDKNSQQPCSRCSGVIKLTPISAFSQ
 DNIYEVQPPRVDRKSTEIFQAHIQASQGIMQPLGKEDSSMYREYIRNRYLTRTRPLE
 QKLISEEDLAANDILDYKDDDDKV

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 FIG4 FIG4 phosphoinositide 5-phosphatase [Homo sapiens (human)]

Official Symbol FIG4

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Synonyms	FIG4; FIG4 phosphoinositide 5-phosphatase; YVS; BTOP; SAC3; ALS11; CMT4J; KIAA0274; dJ249I4.1; polyphosphoinositide phosphatase; FIG4 homolog, SAC domain containing lipid phosphatase; FIG4 homolog, SAC1 domain containing lipid phosphatase; FIG4 homolog, SAC1 lipid phosphatase domain containing; SAC domain-containing protein 3; Sac domain-containing inositol phosphatase 3; phosphatidylinositol 3,5-bisphosphate 5-phosphatase
Gene ID	9896
mRNA Refseq	NM_014845
Protein Refseq	NP_055660
MIM	609390
UniProt ID	Q92562
SDS-PAGE	