

Product datasheet for PH326044

SHTN1 (NM_001127211) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	KIAA1598 MS Standard C13 and N15-labeled recombinant protein (NP_001120683)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC226044
Predicted MW:	71.5 kDa
Protein Sequence:	>RC226044 representing NM_001127211 Red =Cloning site Green =Tags(s)

MNSSDEEKQLQLITSLKEQAIGEYEDLRAENQKTEKCDKIRQERDEAVKKLEEFQKISHMVIEEVNFMQ
 NHLEIEKTCRESAEALATKLNKENKTLKRISMLYMAKLGPDVITEEINIDDEDSTTDGAAETCVSVQC
 QKQIKELRDQIVSVQEEKILAELENLKSLEVEIEEVNKKVQEKTVLNSEVLEQRKVLEKCNRVSMIA
 VEEYEEMQVNLELEKDLRKAESFAQEMFIEQNKLRQSHLLQSSIPDQQLKALDENAKLTQQLEEEER
 IQHQQKVKELEELENETHKEIHNKQQLLELEEDKKELELKYQNSEEKARNLKHSVDELQKRVNQSEN
 SVPPPPPPPPPLPPPPNPIRSLMSMIRKSHPSGSGAKKEKATQPETTEEVTDLKQAVEEMMDRIKKG
 VHLRPVNQTARPKTKPESSKGCESAVDELKGILGTLNKSTSSRLKSLDPENSETELERILRRRKVTAEA
 DSSSPTGILATSESKSMPVLSVSSVTALNKKTLAEFNSPSPPTPEPGEGPRKLEGCTSSKVTFQPP
 SSIGCRKKYIDGEKQAEPPVVLDPVSTHEPQTKDQVAEKDPTQHKEDEGEIQPENKEDSIENVRETDSSN
 C

TRTRPLEEQKLISEEDLAANDILDYKDDDDKV

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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_001120683
RefSeq ORF:	1893


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Synonyms: KIAA1598; shootin-1

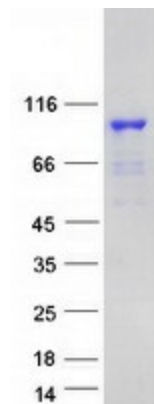
Locus ID: 57698

UniProt ID: [A0MZ66](#)

Cytogenetics: 10q25.3

Summary: Involved in the generation of internal asymmetric signals required for neuronal polarization and neurite outgrowth. Mediates netrin-1-induced F-actin-substrate coupling or 'clutch engagement' within the axon growth cone through activation of CDC42, RAC1 and PAK1-dependent signaling pathway, thereby converting the F-actin retrograde flow into traction forces, concomitantly with filopodium extension and axon outgrowth. Plays a role in cytoskeletal organization by regulating the subcellular localization of phosphoinositide 3-kinase (PI3K) activity at the axonal growth cone. Plays also a role in regenerative neurite outgrowth. In the developing cortex, cooperates with KIF20B to promote both the transition from the multipolar to the bipolar stage and the radial migration of cortical neurons from the ventricular zone toward the superficial layer of the neocortex. Involved in the accumulation of phosphatidylinositol 3,4,5-trisphosphate (PIP3) in the growth cone of primary hippocampal neurons.[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified SHTN1 protein (Cat# [TP326044]). The protein was produced from HEK293T cells transfected with SHTN1 cDNA clone (Cat# [RC226044]) using MegaTran 2.0 (Cat# [TT210002]).