

Product datasheet for PH323326

SHTN1 (NM_018330) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	KIAA1598 MS Standard C13 and N15-labeled recombinant protein (NP_060800)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC223326
Predicted MW:	52.5 kDa
Protein Sequence:	>RC223326 representing NM_018330 Red=Cloning site Green=Tags(s)

MNSSDEEKQLQLITSLKEQAIGEYEDLRAENQKTEKCDKIRQERDEAVKKLEEFQKISHMVIEEVNFMQ
NHLEIEKTCRESAEALATKLNKENKTLKRISMLYMAKLGPDVITEEINIDDEDSTTDGAAETCVSVQC
QKQIKELRDQIVSVQEEKILAIENLKSLEVEIEEVNKKVQEKTVLNSEVLEQRKVLKCNRVSMIA
VEEYEEQVNLLEKDLRKAESFAQEMFIEQNKLKRQSHLLLQSSIPDQQLLKALDENAKLTQQLEEEER
IQHQQVKLEEEQLENETHKEIHNLKQLELLEEDKKELELKYQNSEEKARNLKHSVDELQKRVNQSEN
SVPPPPPPPPPLPPPPPNPIRSLMSMIRKRSHPGSGAKKEKATQPETTEEVTDLKRQAVEEMMDRIKKG
VHLRPVNQTARPKTKPESKGCESAVDELKGILASQ

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:	<u>NP_060800</u>
RefSeq Size:	3415
RefSeq ORF:	1368
Synonyms:	KIAA1598; shootin-1



[View online »](#)

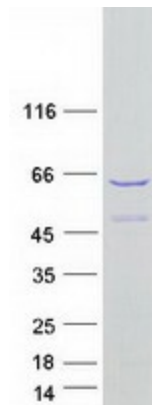
Locus ID: 57698

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# [TP323326]). The protein was produced from HEK293T cells transfected with SHTN1 cDNA clone (Cat# [RC223326]) using MegaTran 2.0 (Cat# [TT210002]).