

## Product datasheet for PH321040

### Smek1 (PPP4R3A) (NM\_032560) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	SMEK1 MS Standard C13 and N15-labeled recombinant protein (NP_115949)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221040
Predicted MW:	93.7 kDa
Protein Sequence:	>RC221040 representing NM_032560 Red=Cloning site Green=Tags(s)

MTDTRRRVKVYTLNEDRQWDDRGTGHVSSGYVERLKGMSLLVRAESDGSLLLESKINPNTAYQKQDQLI  
VWSEAENYDLALSFQEKAGCDEIWEKICQVQGGKDPVSDITQDLVDESEERFDDMSSPGLLELPSCSRL  
EEIAELVASSLPSPRRREKLALALENEGYIKKLELHVCELENIEGLHHLYEIIKGIFLLNRTALFEV  
MFSEECIMDVIGCLEYDPALSQPRKHREFLTKTAKFKEVIPISDPELKQKIHQTYRVQYIQDMVLPSPV  
FEENMLSTLHSFIFFNKVEIVGMLQEDEKFLTDLFAQLTDEATDEEKRQELVNFLKEFCFSQTLQPQNR  
DAFFKTLNMGILPALEVILGMDDTQVRSAAATDIFSYLVEYNPSMVREFVMQEAQQNDDILLINLIEH  
MICDTPDELGGAVQLMGLLRTLVDPENMLATANKTEKTEFLGFFYKHCMHVLTAPLLANTTEDKPSKDDF  
QTAQLLALVLELLTFCVEHHTYHIKNYIINKDILRRVLVLMASKHAFALCALRFKRKIIGLKDEFYNRY  
IMKSFLFEPVVKAFLNNGSRYNLMNSAIEMFEFIRVEDIKSLTAHVNIENYWKALEVDVYVQTFKGLKLR  
FEQQRERQDNPKLDSMRSILRNHRYRRDARTLEDEEEMWFNTDEDDMEDGEAVVSPSDKTKNDDIMDPI  
SKFMERKKLKESEEKVLKTNLSGRQSPSKLSLSSGKTNLTSQSSTNLPGSPGSPGSPGSPGSPGS  
VPKNTSQTAAITTKGGLVGLVDYPDDDEDEDEDKEDTLPLSKKAKFDS

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_115949</a>



[View online »](#)

RefSeq Size:	4449
RefSeq ORF:	2460
Synonyms:	FLFL1; KIAA2010; MSTP033; PP4R3A; smk-1; smk1
Locus ID:	55671
UniProt ID:	<a href="#">Q6IN85</a>
Cytogenetics:	14q32.12
Summary:	Regulatory subunit of serine/threonine-protein phosphatase 4. May regulate the activity of PPP4C at centrosomal microtubule organizing centers. The PPP4C-PPP4R2-PPP4R3A PP4 complex specifically dephosphorylates H2AFX phosphorylated on 'Ser-140' (gamma-H2AFX) generated during DNA replication and required for DNA DSB repair.[UniProtKB/Swiss-Prot Function]

### Product images:



Coomassie blue staining of purified SMEK1 protein (Cat# [TP321040]). The protein was produced from HEK293T cells transfected with SMEK1 cDNA clone (Cat# [RC221040]) using MegaTran 2.0 (Cat# [TT210002]).