

Product datasheet for PH302070

PPM1A (NM_021003) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PPM1A MS Standard C13 and N15-labeled recombinant protein (NP_066283)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202070
Predicted MW:	42.4 kDa
Protein Sequence:	>RC202070 protein sequence Red=Cloning site Green=Tags(s)
	<p>MGAFLDKPKMEKHNAQQGNGRLRYGLSSMQGWRVEMEDAHTAVIGLPSGLESWSFFAVYDGHAGSQVAKY CCEHLLDHITNNQDFKGSAGAPSVENVKNGIRTGFLEIDEHMRVMSEKKHGADRSGSTAVGVLISPOHTY FINCGDSRGLLCRNKRVHFFTDHKPSNPLEKERIQNAGGSVMIQRVNGSLAVSRALGDFDYKCVHGKGP TEQLVSPEPEVHDIERSEEDDQFIILACDGIWDVGMNEELCDFVRSRLEVTDDLEKVCNEVVDTCLYKGS RDNMSVILICFPNAPKVSPEAVKKEAELDKYLECRVEEIIKKQGEGVPDLVHVMRTLASENIPSLPPGGE LASKRNVIEAVYNRLNPYKNDTDTSTDDMW</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
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_066283
RefSeq Size:	8210
RefSeq ORF:	1146
Synonyms:	PP2C-ALPHA; PP2CA; PP2Calpha
Locus ID:	5494



[View online »](#)

UniProt ID: [P35813](#), [A0A024R6A5](#)

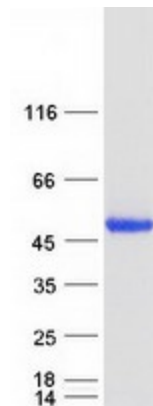
Cytogenetics: 14q23.1

Summary: The protein encoded by this gene is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. This phosphatase dephosphorylates, and negatively regulates the activities of, MAP kinases and MAP kinase kinases. It has been shown to inhibit the activation of p38 and JNK kinase cascades induced by environmental stresses. This phosphatase can also dephosphorylate cyclin-dependent kinases, and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to activate the expression of the tumor suppressor gene TP53/p53, which leads to G2/M cell cycle arrest and apoptosis. Three alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: MAPK signaling pathway

Product images:



Coomassie blue staining of purified PPM1A protein (Cat# [TP302070]). The protein was produced from HEK293T cells transfected with PPM1A cDNA clone (Cat# [RC202070]) using MegaTran 2.0 (Cat# [TT210002]).