

Product datasheet for PH305263

Protein phosphatase inhibitor 1 (PPP1R1A) (NM_006741) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PPP1R1A MS Standard C13 and N15-labeled recombinant protein (NP_006732)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205263
Predicted MW:	18.9 kDa
Protein Sequence:	>RC205263 protein sequence Red=Cloning site Green=Tags(s) MEQDNSPQKIQFTVPLLEPHLDPEAAEQIRRRRPTPATLVLTSDQSSPEIDEDRIPNPHLKSTLAMSPRQ RKKMTRITPTMKELQMMVEHHLGQQQQGEEPEGAAESTGTQESRPPGIPDTEVESRLGTSGTAKKTAECI PKTHERGSKEPSTKEPSTHIPPLDSKGANSV 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:	NP_006732
RefSeq Size:	1849
RefSeq ORF:	513
Synonyms:	I1; IPP1
Locus ID:	5502
UniProt ID:	Q13522



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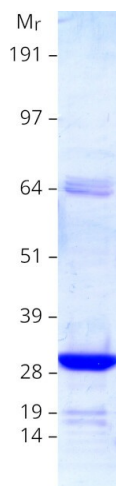
Cytogenetics: 12q13.2

Summary: Inhibitor of protein-phosphatase 1. This protein may be important in hormonal control of glycogen metabolism. Hormones that elevate intracellular cAMP increase I-1 activity in many tissues. I-1 activation may impose cAMP control over proteins that are not directly phosphorylated by PKA. Following a rise in intracellular calcium, I-1 is inactivated by calcineurin (or PP2B). Does not inhibit type-2 phosphatases.[UniProtKB/Swiss-Prot Function]

Protein Families: Druggable Genome

Protein Pathways: Long-term potentiation

Product images:



Coomassie blue staining of purified PPP1R1A protein (Cat# [TP305263]). The protein was produced from HEK293T cells transfected with PPP1R1A cDNA clone (Cat# [RC205263]) using MegaTran 2.0 (Cat# [TT210002]).