

Product datasheet for PH303052

DCPS (NM_014026) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DCPS MS Standard C13 and N15-labeled recombinant protein (NP_054745)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203052
Predicted MW:	38.7 kDa
Protein Sequence:	>RC203052 protein sequence Red=Cloning site Green=Tags(s) MADAAPQLGKRKRELDVEEHAHAASSTEEKEAGVNGTCCAPVRLPFSGFRLQKVLRESARDKIIFLHGKVNE ASEDGDGEDAVVILEKTPFQVEQVAQLLTGSPQLQFSDIYSTYHLFPPRQLNDVKTTVVYPATEKHL QKYLRQDLRLIRETGDDYRNITLPHLESQSLSIQWVYNILDKKAADRVFENPDPSDGFVLIPLDKWNQ QQLLDLYLIAICHRRGIRSLRDLTPEHLPLLRNILHQGQEAAILQRYRMKGDHLRVYLHYLPSYYHLHVHF TALGFEAPGSGVERAHLAEVIENLECDPRHYQQRTLTFALRADDPLLKLLQEAQQS 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_054745</u>
RefSeq Size:	1508
RefSeq ORF:	1011
Synonyms:	ARS; DCS1; HINT-5; HINT5; HSL1; HSPC015
Locus ID:	28960



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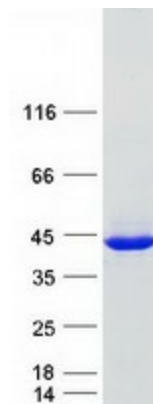
UniProt ID: [Q96C86](#), [A0A384MT18](#)

Cytogenetics: 11q24.2

Summary: This gene encodes a member of the histidine triad family of pyrophosphatases that removes short mRNA fragments containing the 5' cap structure, which appear in the 3' and 5' mRNA decay pathway, following deadenylation and exosome-mediated turnover. This enzyme hydrolyzes the triphosphate linkage of the cap structure (7-methylguanosine nucleoside triphosphate) to yield 7-methylguanosine monophosphate and nucleoside diphosphate. It protects the cell from the potentially toxic accumulation of these short, capped mRNA fragments, and regulates the activity of other cap-binding proteins, which are inhibited by their accumulation. It also acts as a transcript-specific modulator of pre-mRNA splicing and microRNA turnover. [provided by RefSeq, Apr 2017]

Protein Pathways: RNA degradation

Product images:



Coomassie blue staining of purified DCPS protein (Cat# [TP303052]). The protein was produced from HEK293T cells transfected with DCPS cDNA clone (Cat# [RC203052]) using MegaTran 2.0 (Cat# [TT210002]).