

Product datasheet for PH316374

DPYD (NM_000110) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DPYD MS Standard C13 and N15-labeled recombinant protein (NP_000101)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216374
Predicted MW:	111.4 kDa
Protein Sequence:	>RC216374 protein sequence Red=Cloning site Green=Tags(s)

MAPVLSKDSADIESILALNPRTQTHATLCASTSAKKLDDKKHWRNPDKNCFNCEKLENNFDDIKHTTLGER
GALREAMRCLKCADAPCQKSCPTNLDIKSFITSIANKNYYGAAKMIFSDNPLGLTCGMVCPTSDLCVGGC
NLYATEEGPINIGGLQQFATEVFKAMSIQIRNPSLPPPEKMSEAYSAKIALFGAGPASISCAFLARLG
YSDITIFEKQEYVGGSTSEIPQFRLPYDVVNFIEELMKDLGVKIIICGKSLSVNEMTLSTLKEKGYKAAF
IGIGLPEPNKDAIFQGLTQDQGFYTSKDFLPLVAKGSKAGMCACHSPLPSIRGVVIVLGAGDTAFDCATS
ALRCGARRVIVFRKGFVNIRAVPEEMELAKEEKEFLPFLSPRKVIVKGGRIVAMQFVRTEQDETGWKN
EDEDQMVHLKADVVISAFGSVLSDPKVKEALSPIKFNRWGLPEVDPETMQTSEAWVFAGGDVVLANTTV
ESVNDGQASWYIHKYVQSQYGASVSAKPELPLFYTPIDLVDISVEMAGLKFNPFGLASATPATSTSMI
RRAFEAGWGFALTKTFLDKDIVTNVSPRIIRGTTSGPMYGGQSSFLNIELISEKTAAYWCQSVTELKA
DFPDNIVIASIMCSYNKNDWTELAKKSEDSGADALELNLSCPHGMGERGMGLACGQDPELVRNICRWVRQ
AVQIPFFAKLTPNVTDIVSIARAKEGGANGVTATNTVSGLMGLKSDGTPWPAVGIKRTTYGGVSGTAI
RPIALRAVTSIARALPGFPILATGGIDSAESGLQFLHSGASVLQVCSAIQNQDFTVIEDYCTGLKALLYL
KSIEELQDWDGQSPATVSHQKGPVPRIAELMDKKLPSFGPYLEQRKKIIAENKIRLKEQNVAFSPLKRN
CFIPKRP IPTIKDVIGKALQYLGTGFGELSNVEQVVAMIDEEMCINCGKCYMTCNDSGYQAIQFDPETHLP
TITDTCGTCLCLSVCPIVDCIKMVSRTTPYEPKRGVPLSVNPVC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

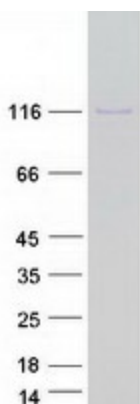
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.



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Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000101</u>
RefSeq Size:	4451
RefSeq ORF:	3075
Synonyms:	DHP; DHPDHASE; DPD
Locus ID:	1806
UniProt ID:	<u>Q12882</u>
Cytogenetics:	1p21.3
Summary:	The protein encoded by this gene is a pyrimidine catabolic enzyme and the initial and rate-limiting factor in the pathway of uracil and thymidine catabolism. Mutations in this gene result in dihydropyrimidine dehydrogenase deficiency, an error in pyrimidine metabolism associated with thymine-uraciluria and an increased risk of toxicity in cancer patients receiving 5-fluorouracil chemotherapy. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]
Protein Families:	Druggable Genome
Protein Pathways:	beta-Alanine metabolism, Drug metabolism - other enzymes, Metabolic pathways, Pantothenate and CoA biosynthesis, Pyrimidine metabolism

Product images:



Coomassie blue staining of purified DPYD protein (Cat# [TP316374]). The protein was produced from HEK293T cells transfected with DPYD cDNA clone (Cat# [RC216374]) using MegaTran 2.0 (Cat# [TT210002]).