

Product datasheet for **TP316374L**

DPYD (NM_000110) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human dihydropyrimidine dehydrogenase (DPYD), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC216374 protein sequence Red=Cloning site Green=Tags(s)

MAPVLSKDSADIESILALNPRTQTHATLCSTSAKKLDDKKHWKRNPDKNCFNCEKLENNFDDIKHTTLGER
GALREAMRCLKCADAPCQKSCPTNLDIKSFITSIANKNYYGAAKMIFSDNPLGLTCGMVCPTSDLCVGGC
NLYATEEGPINIGGLQQFATEVFKAMSIPQIRNPSLPPPEKMSEAYSAKIALFGAGPASISCASFLARLG
YSDITIFEKQEYVGGGLSTSEIPQFRLPYDVVNFIEMLKDLGVKIIICGKLSVNMETLSTLKEKGYKAAF
IGIGLPEPNKDAIFQGLTQDQGFYTSKDFLPLVAKGSKAGMCACHSPLPSIRGVVIVLGAGDTAFDCATS
ALRCGARRVIVFRKGFVNIRAVPEEMELAKEEKCEFLPFLSPRKVIVKGGRRIVAMQFVRTEQDETGKWN
EDEDQMVHLKADVISAFAFGSVLSDPKVKEALSPIKFNRWGLPEVDPETMQTSEAWVFAGGDVVLANTT
ESVNDGKQASWYIHKYVQSQYGASVSAKPELPLFYTPIDLVDISVEMAGLKFNPFGLASATPATSTSMI
RRAFEAGWGFALTKTFLSKDIVTNVSPRIIRGTTSGPMYGPQGSSFLNIELISEKTAAYWCQSVTELKA
DFPDNIVIASIMCSYNKNDWTELAKKSEDSGADALELNLSCPHGMGERGMGLACQDPELVRNICRWVRQ
AVQIPFFAKLTPNVTDIVSIARAAKEGGANGVTATNTVSGLMGLKSDGTPWPAVGIKRTTYGGVSGTAI
RPIALRAVTSIARALPGFPILATGGIDSAESGLQFLHSGASVLQVCSAIQNQDFTVIEDYCTGLKALLYL
KSIEELQDWDGQSPATVSHQKGPVPRIAEMLMDKKLPSFGPYLEQRKKIIAENKIRLKEQNVAFSPLKRN
CFIPKRPIPTIKDVIGKALQYLGTFGELSNVEQVAMIDEEMCINCGKCYMTCNDSGYQAIQFDPETHLP
TITDCTGCTLCLSVCPIVDCIKMVSRTTPYEPKRGVPLSVNPVC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

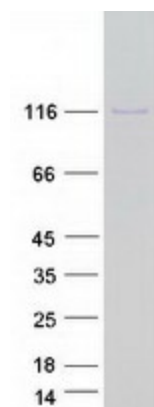
Tag:	C-Myc/DDK
Predicted MW:	111.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000101
Locus ID:	1806
UniProt ID:	Q12882
RefSeq Size:	4451
Cytogenetics:	1p21.3
RefSeq ORF:	3075
Synonyms:	DHP; DHPDHASE; DPD
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]).