

Recombinant Human DPYD Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DPYD-1291H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DPYD MS Standard C13 and N15-labeled recombinant protein (NP_000101) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	111.4 kDa
AA Sequence	MAPVLSKDSADIESILALNPRTQTHATLCSTSAKKLDKKHWKRNPDKNCFNCEKLEN NFDDIKHTTLGERGALREAMRCLKCADAPCQKSCPTNLDIKSFITSIANKNYGAAKM IFSDNPLGLTCGMVCPTSDLCVGGCNLYATEEGPINIGGLQQFATEVFKAMSIPQIRN PSLPPPEKMSEAYSAKIALFGAGPASISCASFLARLGYSITIFEKQEYVGGGLSTSEIP QFRLPYDVVNFEIELMKDLGVKIIICGKSLSVNEMTLSTLKEKGYKAAFIGIGLPEPNKD AIFQGLTQDQGFYTSKDFLPLVAKGSKAGMCACHSPLPSIRGVVIVLGAGDTAFDCA TSALRCGARRVFIVFRKGFVNIRAVPEEMELAKEEKCEFLPFLSPRKVIVKGGGRIVAM

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

QFVRTEQDETGKWNEDEDQMVHLKADVVISAFGSVLSDPKVKEALSPIKFNRWGLP
 EVDPETMQTSEAWVFAGGDVVGLANTTVESVNDGKQASWYIHKYVQSQY GASVSA
 KPELPLFYTPIDLVDISVEMAGLK FVNPFGLASATPATSTSMIRRAFEAGWGFALTKT
 FSLDKDIVTNVSPRIIRGTTSGPMYGPQSSFLNIELISEKTAAYWCQSVTELKADFP
 DNIVIASIMCSYNKNDWTELAKKSEDSGADALELNLSCPHGMGERGMGLACGQDPE
 LVRNICRWVRQAVQIPFFAKLTPNVTDIVSIARAAKEGGANGVTATNTV SGLMGLKS
 DGTPWPAVGIKRTTYGGVSGTAIRPIALRAVTSIARALPGFPILATGGIDSAESGLQF
 LHSGASVLQVCSAIQNQDFTVIEDYCTGLKALLYLKSIEELQDWDGQSPATVSHQKG
 KVPRIAELMDKKLPSFGPYLEQRKKIIAENKIRLKEQNVAFSPLKRNCFIPKRPIPTIK
 DVIGKALQYLGTFGELSNVEQVVAMIDEEMCINGKCYMTCNDSGYQAIQFDPETHL
 PTITDTCTGCTLCLSVCPIVDCIKMVSRTTPYEPKRGVPLSVNPVCTRTRPLEQKLISE
 EDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name DPYD dihydropyrimidine dehydrogenase [Homo sapiens (human)]

Official Symbol DPYD

Synonyms DPYD; dihydropyrimidine dehydrogenase; dihydropyrimidine dehydrogenase

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[NADP(+)]; DPD; dihydrouracil dehydrogenase; dihydrothymine dehydrogenase;
DHP; DHPDHASE; MGC70799; MGC132008;

Gene ID 1806

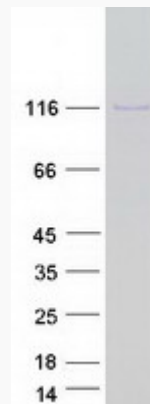
mRNA Refseq NM_000110

Protein Refseq NP_000101

MIM 612779

UniProt ID Q12882

SDS-PAGE



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