

Recombinant Human DPYD

Cat. No. DPYD-28435TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DPYD (1a.a. - 173 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
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	44.66 kDa
AA Sequence	MAPVLSKDSADIESILALNPRTQTHATLCSTSAKKLDKKHWKRNPDKNCFNCEKLEN NFDDIKHTTLGERGALRE AMRCLKCADAPCQKSCPTNLDIKSFITSIANKNYYGAAK MIFSDNPLGLTCGMVCPTSDLCVGGCNLYATEEGPI NIGGLQQFATETLILAFSLMN HL
Applications	ELISA; WB-Re; AP; Array
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

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Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

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

Official Symbol DPYD

Synonyms DPYD; DHP; DPD; DHPDHASE; dihydropyrimidine dehydrogenase; dihydropyrimidine dehydrogenase [NADP(+)]; dihydrouracil dehydrogenase; dihydrothymine dehydrogenase; NP_000101.2; EC 1.3.1.2; NP_001153773.1

Gene ID [1806](#)

mRNA Refseq [NM_000110](#)

Protein Refseq [NP_000101](#)

MIM [612779](#)

UniProt ID Q12882

Chromosome Location 1p22

Pathway Drug metabolism - other enzymes; Pantothenate and CoA biosynthesis; beta-Alanine metabolism

Function 4 iron, 4 sulfur cluster binding; dihydroorotate oxidase activity; dihydropyrimidine dehydrogenase (NADP+) activity

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