

Recombinant Human DPYD

Cat. No. DPYD-28437TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human DPYD with N terminal proprietary tag, 37.73kDa.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
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 Weight	37.730kDa inclusive of tags
Tissue specificity	Found in most tissues with greatest activity found in liver and peripheral blood mononuclear cells.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MAPVLSKDSADIESILALNPRTQTHATLCSTSAKKLDDKKH WKRNPDKNCFNCEKLEN NFDDIKHTTLGERGALREAMRCL KCADAPCQKSCPTNLDIKSFITSIANKNYY
Sequence Similarities	Belongs to the dihydropyrimidine dehydrogenase family.Contains 3 4Fe-4S ferredoxin-type domains.
GENE INFORMATION	
Gene Name	DPYD dihydropyrimidine dehydrogenase [Homo sapiens]
Official Symbol	DPYD
Synonyms	DPYD; dihydropyrimidine dehydrogenase; dihydropyrimidine dehydrogenase [NADP+]; DPD;
Gene ID	1806
mRNA Refseq	NM_000110
Protein Refseq	NP_000101
MIM	612779
Uniprot ID	Q12882
Chromosome Location	1p22
Pathway	Drug metabolism - other enzymes, organism-specific biosystem; Drug metabolism -

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other enzymes, conserved biosystem; Fluoropyrimidine Activity, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;

Function

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

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