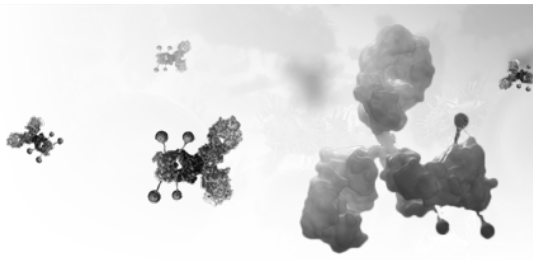

DPYD peptide (DAG-P0439)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. [provided by RefSeq, May 2009]
Specificity	Found in most tissues with greatest activity found in liver and peripheral blood mononuclear cells.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the dihydropyrimidine dehydrogenase family.Contains 3 4Fe-4S ferredoxin-type domains.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	DPYD dihydropyrimidine dehydrogenase [Homo sapiens (human)]
Official Symbol	DPYD
Synonyms	DPYD; dihydropyrimidine dehydrogenase; DHP; DPD; DHPDHASE; dihydropyrimidine

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	dehydrogenase [NADP(+)]; dihydrouracil dehydrogenase; dihydrothymine dehydrogenase;
Entrez Gene ID	1806
mRNA Refseq	NM_000110.3
Protein Refseq	NP_000101.2
UniProt ID	Q12882
Chromosome Location	1p22
Pathway	Drug metabolism - other enzymes, organism-specific biosystem; Drug metabolism - other enzymes, conserved biosystem; Fluoropyrimidine Activity, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Pantothenate and CoA biosynthesis, organism-specific biosystem; Pantothenate and CoA biosynthesis, conserved biosystem; Pyrimidine catabolism, organism-specific biosystem; Pyrimidine degradation, uracil => beta-alanine, thymine =>
Function	4 iron, 4 sulfur cluster binding; NADP binding; dihydroorotate oxidase activity; dihydropyrimidine dehydrogenase (NADP+) activity; dihydropyrimidine dehydrogenase (NADP+) activity; dihydropyrimidine dehydrogenase (NADP+) activity; dihydropyrimidine dehydr

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