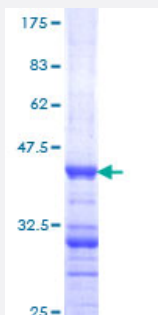


DPYD (Human) Recombinant Protein (Q01)

Catalog # H00001806-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human DPYD partial ORF (NP_000101, 1 a.a. - 110 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAPVLSKDSADIESILALNPRTQTATLCSTSAKKLDKKHWKRNPDKNCFNCEKLENNFDDIKHTT LGERGALREAMRCLKCADAPCQKSCPTNLDIKSFITSIANKNYY
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (88)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — DPYD

Entrez GeneID [1806](#)

GeneBank Accession# [NM_000110](#)

Protein Accession# [NP_000101](#)

Gene Name DPYD

Gene Alias DHP, DHPDHASE, DPD, MGC132008, MGC70799

Gene Description dihydropyrimidine dehydrogenase

Omim ID [274270](#)

Gene Ontology [Hyperlink](#)

Gene 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]

Other Designations OTTHUMP00000037640|OTTHUMP00000058954|dihydrothymine dehydrogenase|dihydrouracil dehydrogenase

Pathway

- [beta-Alanine metabolism](#)
- [Drug metabolism - other enzymes](#)

- [Metabolic pathways](#)
- [Pantothenate and CoA biosynthesis](#)
- [Pyrimidine metabolism](#)

Disease

- [Adenocarcinoma](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Diarrhea](#)
- [Dihydropyrimidine Dehydrogenase Deficiency](#)
- [Disease Progression](#)
- [Drug Toxicity](#)
- [Esophageal Neoplasms](#)
- [Gastrointestinal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Hearing Loss](#)
- [Hematologic Diseases](#)
- [Hematologic Neoplasms](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Leukopenia](#)
- [Mucositis](#)

- [Neoplasm Invasiveness](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neurotoxicity Syndromes](#)
- [Neutropenia](#)
- [Ovarian Neoplasms](#)
- [Pancreatic Neoplasms](#)
- [Rectal Neoplasms](#)
- [Stomach Neoplasms](#)
- [Stomatitis](#)
- [Thrombocytopenia](#)
- [Tobacco Use Disorder](#)