Dihydropyrimidine Dehydrogenase [NADP (+)] (DPYD) Pig Recombinant Protein

PRODUCT OVERVIEW

Product Name	Dihydropyrimidine dehydrogenase [NADP (+)] (DPYD), Recombinant Protein
Full Product Name	Recombinant Pig Dihydropyrimidine dehydrogenase [NADP (+)] (DPYD), partial
Product Gene Name	DPYD recombinant protein
Product Synonym Gene Name	DPYD
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	111,424 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q28943
Species	Sus scrofa (Pig)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for DPYD recombinant protein	This protein 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.
Other Notes	Small volumes of DPYD recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DPYD purchase	MBS1399517 is a recombinant protein targeting DPYD. Also known as Recombinant Pig Dihydropyrimidine dehydrogenase [NADP (+)] (DPYD), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DPYD. It may not necessarily be applicable to this product.

NCBI GI #	47522904
NCBI GeneID	397109
NCBI Accession #	NP_999209.1
UniProt Primary Accession #	Q28943
UniProt Related Accession #	Q28943
GenBank Nucleotide #	NM_214044.2

NCBI Official Full Name	dihydropyrimidine dehydrogenase
NCBI Official Symbol	DPYD
UniProt Protein Name	Dihydropyrimidine dehydrogenase [NADP(+)]
UniProt Synonym Protein Names	Dihydrothymine dehydrogenase; Dihydrouracil dehydrogenase
Protein Family	Dihydropyrimidine dehydrogenase
UniProt Gene Name	DPYD
UniProt Synonym Gene Names	DHPDHase; DPD
NCBI Protein Information	dihydropyrimidine dehydrogenase [NADP(+)]
UniProt Comments for DPYD	Involved in pyrimidine base degradation. Catalyzes the reduction of uracil and thymine.
Research Articles on DPYD	**1.** Data show that dihydropyrimidine dehydrogenase residue H673 is required for active site closure, while S670 is important for substrate recognition.
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