abcam

Product datasheet

Recombinant Human DPD protein ab114584

1 Image

Description

Product name	Recombinant Human DPD protein
Expression system	Wheat germ
Accession	Q12882
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MAPVLSKDSADIESILALNPRTQTHATLCSTSAKKLDKKH WKRNPDKNCF NCEKLENNFDDIKHTTLGERGALREAMRCLKCADAPCQK SCPTNLDIKSF ITSIANKNYYGAAKMIFSDNPLGLTCGMVCPTSDLCVGGCN LYATEEGPI NIGGLQQFATETLILAFSLMNHL
Predicted molecular weight	45 kDa including tags
Amino acids	1 to 173

Specifications

Our **Abpromise guarantee** covers the use of **ab114584** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA SDS-PAGE Western blot
Form	Liquid

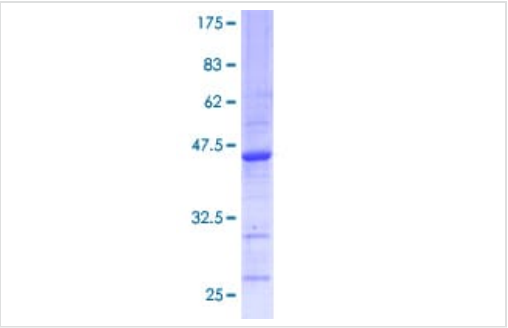
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

General Info

Function	Involved in pyrimidine base degradation. Catalyzes the reduction of uracil and thymine. Also involved the degradation of the chemotherapeutic drug 5-fluorouracil.
Tissue specificity	Found in most tissues with greatest activity found in liver and peripheral blood mononuclear cells.
Pathway	Amino-acid biosynthesis; beta-alanine biosynthesis.
Involvement in disease	Defects in DPYD are the cause of dihydropyrimidine dehydrogenase deficiency (DPYD deficiency) [MIM:274270]; also known as hereditary thymine-uraciluria or familial pyrimidinemia. DPYD deficiency is a disease characterized by persistent urinary excretion of excessive amounts of uracil, thymine and 5-hydroxymethyluracil. Patients suffering from this disease show a severe reaction to the anticancer drug 5-fluorouracil. This reaction includes stomatitis, Leukopenia, thrombocytopenia, hair loss, diarrhea, fever, marked weight loss, cerebellar ataxia, and neurologic symptoms, progressing to semicoma.
Sequence similarities	Belongs to the dihydropyrimidine dehydrogenase family. Contains 3 4Fe-4S ferredoxin-type domains.
Cellular localization	Cytoplasm.

Images



SDS-PAGE - Recombinant Human DPD protein (ab114584)

12.5% SDS-PAGE showing ab114584 at approximately 45.03kDa stained with Coomassie Blue.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors