abcam

Product datasheet

Recombinant Human 15-PGDH protein ab99298

1 Image

Description

Product name	Recombinant Human 15-PGDH protein
Purity	> 95 % SDS-PAGE. ab99298 is purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	**P15428**
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	**MGSSHHHHHHSSGLVPRGSH**MHVNGKVALVTGAAQGIG RAFAEALLLKGA KVALVDWNLEAGVQCKAALDEQFEPQKTLFIQCDVADQ QQLRDTFRKVVD HFGRLDILVNNAGVNNEKNWEKTLQINLVSVISGTYLGLDY MSKQNGGEG GIIINMSSLAGLMPVAQQPVYCASKHGIVGFTRSAALAANL MNSGVRLNA ICPGFVNTAILESIEKEENMGQYIEYKDHIKDMIKYYGILDPPL IANGLI TLIEDDALNGAIMKITTSKGIHFQDYDTTPFQAKTQ
Predicted molecular weight	31 kDa including tags
Amino acids	1 to 266
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab99298** in the following tested applications.

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

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

pH: 8.00
Constituents: 0.0154% DTT, 0.316% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

General Info

Function

Prostaglandin inactivation. Contributes to the regulation of events that are under the control of prostaglandin levels. Catalyzes the NAD-dependent dehydrogenation of lipoxin A4 to form 15-oxo-lipoxin A4. Inhibits in vivo proliferation of colon cancer cells.

Tissue specificity

Detected in colon epithelium (at protein level).

Involvement in disease

Defects in HPGD are the cause of primary hypertrophic osteoathropathy autosomal recessive (PHOAR) [MIM:259100]; also known as pachydermoperiostosis autosomal recessive. Primary hypertrophic osteoarthropathy is characterized by digital clubbing, osterarthropathy, variable features of pachydermia, delayed closure of the fontanels, and congenital heart disease.
Defects in HPGD are the cause of cranioosteoarthropathy (COA) [MIM:259100]. Clinical features include infantile onset of swelling of the joints, digital clubbing, hyperhidrosis, delayed closure of the fontanels, periostosis, and variable patent ductus arteriosus. Pachydermia is not a prominent feature.
Defects in HPGD are a cause of isolated congenital nail clubbing (ICNC) [MIM:119900]; also called clubbing of digits or hereditary acropachy. ICNC is a rare genodermatosis characterized by enlargement of the nail plate and terminal segments of the fingers and toes, resulting from proliferation of the connective tissues between the nail matrix and the distal phalanx. It is usually symmetrical and bilateral (in some cases unilateral). In nail clubbing usually the distal end of the nail matrix is relatively high compared to the proximal end, while the nail plate is complete but its dimensions and diameter more or less vary in comparison to normal. There may be different fingers and toes involved to varying degrees. Some fingers or toes are spared, but the thumbs are almost always involved.

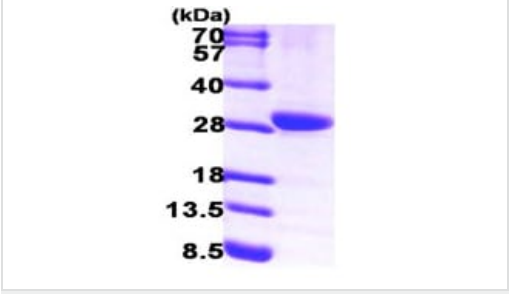
Sequence similarities

Belongs to the short-chain dehydrogenases/reductases (SDR) family.

Cellular localization

Cytoplasm.

Images



SDS-PAGE - Recombinant Human 15-PGDH protein (ab99298)

15% SDS-PAGE showing ab99298 (3µg).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- 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

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