

Product datasheet

Recombinant Human DCXR protein ab98147

1 Image

Description

<b>Product name</b>	Recombinant Human DCXR protein
<b>Purity</b>	> 95 % SDS-PAGE. ab98147 was purified using conventional chromatography techniques.
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<a href="#">Q7Z4W1</a>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<b>MGSSHHHHHSSGLVPRGSHMELFLAGRRVLVTGAGK GIGRGTVQALHAT GARVVAVSRTQADLDSLRECPGIEPVCVDLGDWEATER ALGSVGPVDLL VNNAAVALLQPFLEVTKAEFDRSFEVNLRAVIQVSQVAR GLIARGVPGA MNVSSQCSQRAVTNHSVYCSTKGALDMLTKVMALELGP HKIRVNAVNP VVMTSMGQATWSDPHKAKTMLNRIPLGKFAEVEHVVNAIL FLLSDRSGMT TGSTLPVEGGFWAC</b>
<b>Predicted molecular weight</b>	28 kDa including tags
<b>Amino acids</b>	1 to 244
<b>Tags</b>	His tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab98147** in the following tested applications.

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

<b>Applications</b>	Mass Spectrometry SDS-PAGE
<b>Mass spectrometry</b>	MALDI-TOF
<b>Form</b>	Liquid

## Preparation and Storage

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### Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.0154% DTT, 0.316% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.29% Sodium chloride

## General Info

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### Function

Catalyzes the NADPH-dependent reduction of several pentoses, tetroses, trioses, alpha-dicarbonyl compounds and L-xylulose. Participates in the uronate cycle of glucose metabolism. May play a role in the water absorption and cellular osmoregulation in the proximal renal tubules by producing xylitol, an osmolyte, thereby preventing osmolytic stress from occurring in the renal tubules.

### Tissue specificity

Highly expressed in kidney, liver and epididymis. In the epididymis, it is mainly expressed in the proximal and distal sections of the corpus region. Weakly or not expressed in brain, lung, heart, spleen and testis.

### Involvement in disease

Note=The enzyme defect in pentosuria has been shown to involve L-xylulose reductase. Essential pentosuria is an inborn error of metabolism characterized by the excessive urinary excretion of the pentose L-xylulose.

### Sequence similarities

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

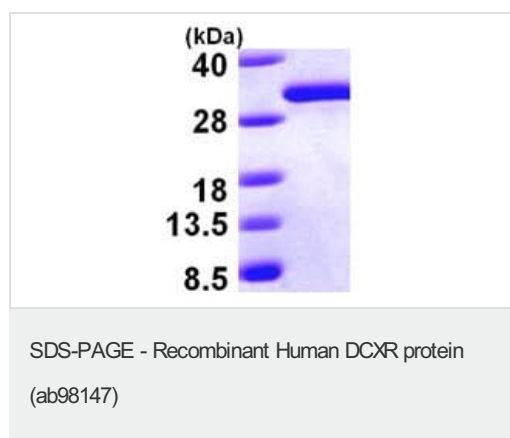
### Cellular localization

Membrane. Probably recruited to membranes via an interaction with phosphatidylinositol.

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## Images

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15% SDS-PAGE analysis of 3µg ab98147

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

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- 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

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