Datasheet for ABIN7559019

RDH12 Protein (AA 1-316) (His tag)

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Overview

Quantity:	1 mg
Target:	RDH12
Protein Characteristics:	AA 1-316
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RDH12 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Rdh12 Protein expressed in mammalien cells.
Sequence:	MLFILVLLTS FLSILYLTAP SIRKFFAGGV CTTNVQIPGK VVVITGANTG IGKETARELA RRGARVYIAC RDVLKGESAA SEIRADTKNS QVLVRKLDLS DTKSIRAFAE RFLAEEKKLH ILINNAGVMM CPYSKTTDGF ETHFGVNHLG HFLLTYLLLE RLKESAPARV VNLSSIAHLI GKIRFHDLQG QKRYCSAFAY GHSKLANLLF TRELAKRLQG TGVTAYAVHP GVVLSEITRN SYLLCLLWRL FSPFFKSTSQ GAQTSLHCAL AEDLEPLSGK YFSDCKRMWV SSRARNKKTA ERLWNVSCEL LGIQWE **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts.

Product Details

- Protein expressed in mammalien cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	RDH12
Alternative Name:	Rdh12 (RDH12 Products)
Background:	Retinol dehydrogenase 12 (EC 1.1.1.300),FUNCTION: Retinoids dehydrogenase/reductase with a clear preference for NADP. Displays high activity towards 9-cis, 11-cis and all-trans-retinal. Shows very weak activity toward 13-cis-retinol. Also exhibits activity, albeit with lower affinity than for retinaldehydes, towards lipid peroxidation products (C9 aldehydes) such as 4-hydroxynonenal and trans-2-nonenal (By similarity). Plays an important function in photoreceptor cells to detoxify 4-hydroxynonenal and potentially other toxic aldehyde products resulting from lipid peroxidation (PubMed:19686838, PubMed:22621924, PubMed:17032653). Has no dehydrogenase activity towards steroids (By similarity). {ECO:0000250|UniProtKB:Q96NR8, ECO:0000269|PubMed:17032653, ECO:0000269|PubMed:19686838, ECO:0000269|PubMed:22621924}.
Molecular Weight:	35.3 kDa
UniProt:	Q8BYK4

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

