

Datasheet for ABIN7551197
RDH16 Protein (AA 1-317) (His tag)



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Overview

Quantity:	1 mg
Target:	RDH16
Protein Characteristics:	AA 1-317
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RDH16 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RDH16 Protein expressed in mammalian cells.
Sequence:	MWLYLAVFVG LYLLHWYRE RQVLSHLRDK YVFITGCDSG FGKLLARQLD ARGLRVLAAC LTEKGAEQLR GQTSDRLETV TLDVTKTESV AAAAQWVKEC VRDKGLWGLV NNAGISLPTA PNELLTKQDF VTILDVNLLG VIDVTLSELLP LVRRARGRVV NVSSVMGRVS LFGGGYCISK YGVEAFSDSL RRELSYFGVK VAMIEPGYFK TAVTSKERFL KSFLEIWDRS SPEVKEAYGE KFDVADYKKS A EQMEQKCTQD LSLVTNCMEH ALIACHPRTR YSAGWDAKLL YLPMSYMP TF LVDAIMYWVS PSPAKAL 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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Grade:	custom-made
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Target Details

Target:	RDH16
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Alternative Name:	RDH16 (RDH16 Products)
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Background:	Retinol dehydrogenase 16 (EC 1.1.1.105) (EC 1.1.1.209) (EC 1.1.1.315) (EC 1.1.1.53) (Human epidermal retinol dehydrogenase) (hRDH-E) (Microsomal NAD(+)-dependent retinol dehydrogenase 4) (RoDH-4) (Short chain dehydrogenase/reductase family 9C member 8) (Sterol/retinol dehydrogenase),FUNCTION: Oxidoreductase with a preference for NAD. Oxidizes all-trans-retinol, 9-cis-retinol, 11-cis-retinol and 13-cis-retinol to the corresponding aldehydes (PubMed:10329026, PubMed:12534290, PubMed:9677409). Has higher activity towards CRBP-bound retinol than with free retinol (PubMed:12534290). Oxidizes also 3-alpha-hydroxysteroids. Oxidizes androstanediol and androsterone to dihydrotestosterone and androstanedione. Can also catalyze the reverse reaction (PubMed:10329026, PubMed:9677409, PubMed:29541409). {ECO:0000269 PubMed:10329026, ECO:0000269 PubMed:12534290, ECO:0000269 PubMed:29541409, ECO:0000269 PubMed:9677409}.
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Molecular Weight:	35.7 kDa
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UniProt:	O75452
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Target Details

Pathways: [Steroid Hormone Biosynthesis](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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