Datasheet for ABIN7551982

ADH7 Protein (AA 1-386) (His tag)

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Overview

Quantity:	1 mg
Target:	ADH7
Protein Characteristics:	AA 1-386
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADH7 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat ADH7 Protein expressed in mammalien cells.
Sequence:	MFAEIQIQDK DRMGTAGKVI KCKAAVLWEQ KQPFSIEEIE VAPPKTKEVR IKILATGICR TDDHVIKGTM VSKFPVIVGH EATGIVESIG EGVTTVKPGD KVIPLFLPQC RECNACRNPD GNLCIRSDIT GRGVLADGTT RFTCKGKPVH HFMNTSTFTE YTVVDESSVA KIDDAAPPEK VCLIGCGFST GYGAAVKTGK VKPGSTCVVF GLGGVGLSVI MGCKSAGASR IIGIDLNKDK FEKAMAVGAT ECISPKDSTK PISEVLSEMT GNNVGYTFEV IGHLETMIDA LASCHMNYGT SVVVGVPPSA KMLTYDPMLL FTGRTWKGCV FGGLKSRDDV PKLVTEFLAK KFDLDQLITH VLPFKKISEG FELLNSGQSI RTVLTF **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:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- 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:	ADH7
Alternative Name:	ADH7 (ADH7 Products)
Background:	All-trans-retinol dehydrogenase [NAD(+)] ADH7 (EC 1.1.1.105) (Alcohol dehydrogenase class 4 mu/sigma chain) (EC 1.1.1.1) (Alcohol dehydrogenase class IV mu/sigma chain) (Gastric alcohol dehydrogenase) (Omega-hydroxydecanoate dehydrogenase ADH7) (EC 1.1.1.66) (Retinol dehydrogenase),FUNCTION: Catalyzes the NAD-dependent oxidation of all-trans-retinol, alcohol, and omega-hydroxy fatty acids and their derivatives (PubMed:15369820, PubMed:16787387, PubMed:9600267). Oxidizes preferentially all trans-retinol, all-trans-4-hydroxyretinol, 9-cis-retinol, 2-hexenol, and long chain omega-hydroxy fatty acids such as juniperic acid (PubMed:15369820, PubMed:16787387, PubMed:9600267). In vitro can also catalyzes the NADH-dependent reduction of all-trans-retinal and aldehydes and their derivatives (PubMed:15369820, PubMed:16787387, PubMed:9600267). Reduces preferentially all trans-retinal, all-trans-4-oxoretinal and hexanal (PubMed:15369820, PubMed:16787387). Catalyzes in the oxidative direction with higher efficiency (PubMed:16787387, PubMed:15369820). Therefore may participate in retinoid metabolism, fatty acid omega-oxidation, and elimination of cytotoxic aldehydes produced by lipid peroxidation (PubMed:9600267, PubMed:15369820,

Target Details

	PubMed:16787387). {ECO:0000269|PubMed:15369820, ECO:0000269|PubMed:16787387, ECO:0000269|PubMed:9600267}.
Molecular Weight:	41.5 kDa
UniProt:	P40394

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