

Datasheet for ABIN7557913
AWAT2 Protein (AA 1-333) (His tag)



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Overview

Quantity:	1 mg
Target:	AWAT2
Protein Characteristics:	AA 1-333
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AWAT2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Awat2 Protein expressed in mammalien cells.
Sequence:	<p>MFWPTKKDLK TAMEVFALFQ WALSALVIVT TVIIVNLYLV VFTSYWPVTV LMLTWLAFDW KTPERGGRF TCVRKWRLWK HYSDFPLKM VKTKDISPDR NYILVCHPHG LMAHSCFGHF ATDTTGFSKT FPGITPYMLT LGAFFWVPFL RDYVMSTGSC SVSRSSMDFL LTQKGTGNML VVVVGGLAEC RYSTPGSTTL FLKKRQGFVR TALKHGVSLI PAYAFGETDL YDQHIFTPGG FVNRFQKWFQ KMVHIYPCAF YGRGLTKNSW GLLPYSQPVT TVVGEPLPLP KIENPSEEIV AKYHTLYIDA LRKLFQHKHT KFGISETQEL VIV 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.</p>
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, Western Blot

Grade: custom-made

Target Details

Target: AWAT2

Alternative Name: Awat2 ([AWAT2 Products](#))

Background: Acyl-CoA wax alcohol acyltransferase 2 (EC 2.3.1.75) (11-cis-specific retinyl-ester synthase) (11-cis-RE-synthase) (Acyl-CoA retinol O-fatty-acyltransferase) (ARAT) (Retinol O-fatty-acyltransferase) (EC 2.3.1.76) (Diacylglycerol O-acyltransferase 2-like protein 4) (EC 2.3.1.20) (Long-chain-alcohol O-fatty-acyltransferase 2) (Wax synthase) (mWS),FUNCTION: Acyltransferase that catalyzes the formation of ester bonds between fatty alcohols and fatty acyl-CoAs to form wax monoesters (PubMed:15220349). Shows a preference for medium chain acyl-CoAs from C12 to C16 in length and fatty alcohols shorter than C20, as the acyl donor and acceptor, respectively (PubMed:15220349). Also possesses fatty acyl-CoA retinol acyltransferase (ARAT) activity that preferentially esterifies 11-cis-retinol, a chromophore precursor of bleached opsin pigments in cone cells (PubMed:28096191). Shows higher catalytic efficiency toward 11-cis-retinol versus 9-cis-retinol, 13- cis-retinol and all-trans-retinol substrates. {ECO:0000269|PubMed:15220349, ECO:0000269|PubMed:28096191}.

Molecular Weight: 38.1 kDa

UniProt: [Q6E1M8](#)

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
