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Datasheet for ABIN3080079

# FADS2 Protein (AA 327-444) (His tag)



### Overview

OVEIVIEW	
Quantity:	1 mg
Target:	FADS2
Protein Characteristics:	AA 327-444
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FADS2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
Product Details	
Sequence:	RFLESHWFVW VTQMNHIVME IDQEAYRDWF SSQLTATCNV EQSFFNDWFS GHLNFQIEHH
	LFPTMPRHNL HKIAPLVKSL CAKHGIEYQE KPLLRALLDI IRSLKKSGKL WLDAYLHK
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human FADS2 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	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.

specific reference buffer.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

#### Purification:

Two step purification of proteins expressed in bacterial culture:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

EVDSS

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Target

Crystallography grade

## **Target Details**

rarget.	PADS2
Alternative Name:	FADS2 (FADS2 Products)
Background:	Component of a lipid metabolic pathway that catalyzes biosynthesis of highly unsaturated fatty
	acids (HUFA) from precursor essential polyunsaturated fatty acids (PUFA) linoleic acid (LA)
	(18:2n-6) and alpha-linolenic acid (ALA) (18:3n-3). Catalyzes the first and rate limiting step in
	this pathway which is the desaturation of LA (18:2n-6) and ALA (18:3n-3) into gamma-linoleic
	acid (GLA) (18:3n-6) and stearidonic acid (18:4n-3) respectively and other desaturation steps.

# **Target Details**

Storage Comment:

Expiry Date:

l arget Details	
	Highly unsaturated fatty acids (HUFA) play pivotal roles in many biological functions. It catalizes as well the introduction of a cis double bond in palmitate to produce the monounsaturated fatty acid sapienate, the most abundant fatty acid in sebum. {ECO:0000269 PubMed:12713571, ECO:0000269 PubMed:9867867}.
Molecular Weight:	15.1 kDa Including tag.
UniProt:	095864
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.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C

Store at -80°C.

Unlimited (if stored properly)