Datasheet for ABIN3109444

FAAH Protein (AA 1-579) (rho-1D4 tag)

3 Images

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Overview

Quantity:	1 mg
Target:	FAAH
Protein Characteristics:	AA 1-579
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FAAH protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MVQYELWAAL PGASGVALAC CFVAAAVALR WSGRRTARGA VVRARQRQRAG LENMDRAAQR FRLQNPDLDS EALLALPLPQ LVQKLHSREL APEAVLFTYV GKAWEVNKGT NCVTSYLADC ETQLSQAPRQ GLLYGVPVSL KECFTYKGQD STLGLSLNEG VPAECDSVVV HVLKLQGAVP FVHTNVPQSM FSYDCSNPLF GQTVNPWKSS KSPGGSSGGE GALIGSGGSP LGLGTDIGGS IRFPSSFCGI CGLKPTGNRL SKSGLKGCVY GQEAVRLSVG PMARDVESLA LCLRALLCED MFRLDPTVPP LPFREEVYTS SQPLRVGYYE TDNYTMPSPA MRRAVLETKQ SLEAAGHTLV PFLPSNIPHA LETLSTGGLF SDGGHTFLQN FKGDFVDPCL GDLVSILKLP QWLKGLLAFL VKPLLPRLSA FLSNMKSRSA GKLWELQHEI EVYRKTVIA QWRALDLDVV LTPMLAPALD LNAPGRATGA VSYTMLYNC LDFPAGVVPV TTVTAEDEAQ MEHYRGYFGD IWDKMLQKGM KKSVGLPVAV QCVALPWQEE LCLRFMREVE RLMTPEKQSS GSSGTETSQV APA **Sequence with tag.**

Product Details

Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human FAAH Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • 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 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. 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 specific reference buffer. 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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	FAAH
Alternative Name:	FAAH (FAAH Products)
Background:	Degrades bioactive fatty acid amides like oleamide, the endogenous cannabinoid, anandamide and myristic amide to their corresponding acids, thereby serving to terminate the signaling functions of these molecules. Hydrolyzes polyunsaturated substrate anandamide preferentially as compared to monounsaturated substrates. {ECO:0000269|PubMed:17015445}.
Molecular Weight:	64.2 kDa Including tag.
UniProt:	O00519
Pathways:	Monocarboxylic Acid Catabolic Process

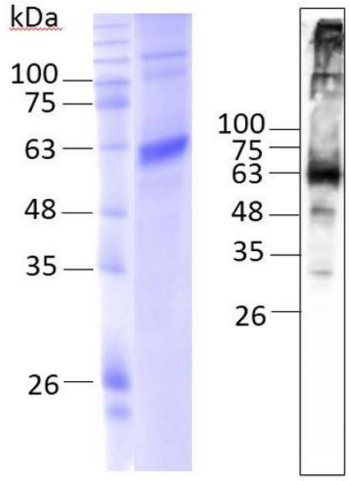
Application Details

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 gurantee though.
Comment:	C-terminal Rho1D4-tag
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	40 mM Hepes, pH 8.0, 150 mM NaCl, 0,003% LMNG
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process



Western Blotting

Image 2. Fatty Acid Amide Hydrolase (AFFH) (AA 1-579), Fraction 9-11

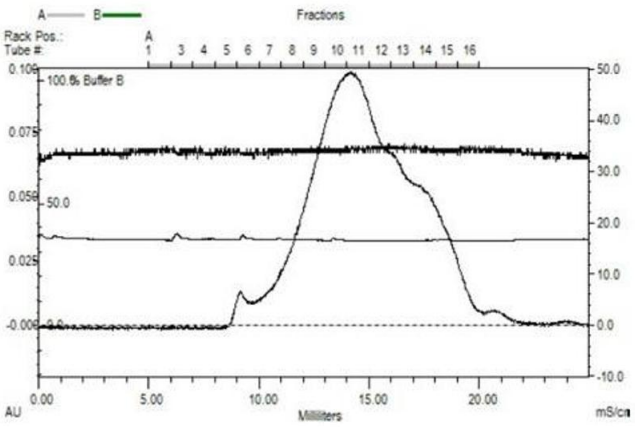


Image 3. Fatty Acid Amide Hydrolase (AFFH) (AA 1-579), Gel Filtration Superose 6, Fraction 9-11