Datasheet for ABIN7553871

FAAH Protein (AA 1-579) (His tag)

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Overview

Quantity:	1 mg
Target:	FAAH
Protein Characteristics:	AA 1-579
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FAAH protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant FAAH Protein expressed in mammalian cells.
Sequence:	MVQYELWAAL PGASGVALAC CFVAAAVALR WSGRRTARGA VVRARQRQRA GLENMDRAAQ RFRLQNPDLD SEALLALPLP QLVQKLHSRE LAPEAVLFTY VGKAWEVNKG TNCVTSYLAD CETQLSQAPR QGLLYGVPVS LKECFTYKGQ DSTLGLSLNE GVPAECDSVV VHVLKLQGAV PFVHTNVPQS MFSYDCSNPL FGQTVNPWKS SKSPGGSSGG EGALIGSGGS PLGLGTDIGG SIRFPSSFCG ICGLKPTGNR LSKSGLKGCV YGQEAVRLSV GPMARDVESL ALCLRALLCE DMFRLDPTVP PLPFREEVYT SSQPLRVGYY ETDNYTMPSP AMRRAVLETK QSLEAAGHTL VPFLPSNIPH ALETLSTGGL FSDGGHTFLQ NFKGDFVDPC LGDLVSILKL PQWLKGLLAF LVKPLLPRLS AFLSNMKSRS AGKLWELQHE IEVYRKTVIA QWRALDLDVV LTPMLAPALD LNAPGRATGA VSYTMLYNCL DFPAGVVPVT TVTAEDEAQM EHYRGYFGDI WDKMLQKGMK KSVGLPVAVQ CVALPWQEEL CLRFMREVER LMTPEKQSS **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**

Product Details

	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: • 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)
Grade:	custom-made

Target Details

Target:	FAAH
Alternative Name:	FAAH (FAAH Products)
Background:	Fatty-acid amide hydrolase 1 (EC 3.5.1.99) (Anandamide amidohydrolase 1) (Fatty acid ester hydrolase) (EC 3.1.1.-) (Oleamide hydrolase 1),FUNCTION: Catalyzes the hydrolysis of endogenous amidated lipids like the sleep-inducing lipid oleamide ((9Z)-octadecenamide), the endocannabinoid anandamide (N-(5Z,8Z,11Z,14Z-eicosatetraenoyl)-ethanolamine), as well as other fatty amides, to their corresponding fatty acids, thereby regulating the signaling functions of these molecules (PubMed:9122178, PubMed:17015445, PubMed:19926788). Hydrolyzes polyunsaturated substrate anandamide preferentially as compared to monounsaturated substrates (PubMed:9122178, PubMed:17015445). It can also catalyze the hydrolysis of the endocannabinoid 2-arachidonoylglycerol (2-(5Z,8Z,11Z,14Z-eicosatetraenoyl)-glycerol) (PubMed:21049984). FAAH cooperates with PM20D1 in the hydrolysis of amino acid-

Target Details

	conjugated fatty acids such as N-fatty acyl glycine and N-fatty acyl-L-serine, thereby acting as a physiological regulator of specific subsets of intracellular, but not of extracellular, N-fatty acyl amino acids (By similarity). {ECO:0000250|UniProtKB:O08914, ECO:0000269|PubMed:17015445, ECO:0000269|PubMed:19926788, ECO:0000269|PubMed:21049984, ECO:0000269|PubMed:9122178}.
Molecular Weight:	63.1 kDa
UniProt:	O00519
Pathways:	Monocarboxylic Acid Catabolic Process

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