

Datasheet for ABIN7553947 FFAR3 Protein (AA 1-346) (His tag)



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Overview	
Quantity:	1 mg
Target:	FFAR3
Protein Characteristics:	AA 1-346
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FFAR3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)
Product Details	
Purpose:	Custom-made recombinat FFAR3 Protein expressed in mammalien cells.
Sequence:	MDTGPDQSYF SGNHWFVFSV YLLTFLVGLP LNLLALVVFV GKLQRRPVAV DVLLLNLTAS DLLLLLFLPF RMVEAANGMH WPLPFILCPL SGFIFFTTIY LTALFLAAVS IERFLSVAHP LWYKTRPRLG QAGLVSVACW LLASAHCSVV YVIEFSGDIS HSQGTNGTCY LEFRKDQLAI LLPVRLEMAV VLFVVPLIIT SYCYSRLVWI LGRGGSHRRQ RRVAGLLAAT LLNFLVCFGP YNVSHVVGYI CGESPAWRIY VTLLSTLNSC VDPFVYYFSS SGFQADFHEL LRRLCGLWGQ WQQESSMELK EQKGGEEQRA DRPAERKTSE HSQGCGTGGQ VACAES 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:

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	 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:	FFAR3
Alternative Name:	FFAR3 (FFAR3 Products)
Background:	Free fatty acid receptor 3 (G-protein coupled receptor 41),FUNCTION: G protein-coupled receptor that is activated by a major product of dietary fiber digestion, the short chain fatty acids (SCFAs), and that plays a role in the regulation of whole-body energy homeostasis and in intestinal immunity. In omnivorous mammals, the short chain fatty acids acetate, propionate and butyrate are produced primarily by the gut microbiome that metabolizes dietary fibers. SCFAs serve as a source of energy but also act as signaling molecules. That G protein-coupled receptor is probably coupled to the pertussis toxin-sensitive, G(i/o)-alpha family of G proteins. Its activation results in the formation of inositol 1,4,5-trisphosphate, the mobilization of intracellular calcium, the phosphorylation of the MAPK3/ERK1 and MAPK1/ERK2 kinases and the inhibition of intracellular cAMP accumulation (PubMed:12711604). Activated by SCFAs and by beta-hydroxybutyrate, a ketone body produced by the liver upon starvation, it inhibits N-type calcium channels and modulates the activity of sympathetic neurons through a signaling cascade involving the beta and gamma subunits of its coupled G protein, phospholipase C and MAP kinases. Thereby, it may regulate energy expenditure through the control of the

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	sympathetic nervous system that controls for instance heart rate. Upon activation by SCFAs
	accumulating in the intestine, it may also signal to the brain via neural circuits which in turn
	would regulate intestinal gluconeogenesis. May also control the production of hormones
	involved in whole-body energy homeostasis. May for instance, regulate blood pressure through
	renin secretion. May also regulate secretion of the PYY peptide by enteroendocrine cells and
	control gut motility, intestinal transit rate, and the harvesting of energy from SCFAs produced
	by gut microbiota. May also indirectly regulate the production of LEP/Leptin, a hormone acting
	on the CNS to inhibit food intake, in response to the presence of short-chain fatty acids in the
	intestine. Finally, may also play a role in glucose homeostasis. Besides its role in energy
	homeostasis, may play a role in intestinal immunity. May mediate the activation of the
	inflammatory and immune response by SCFAs in the gut, regulating the rapid production of
	chemokines and cytokines by intestinal epithelial cells. Among SCFAs, the fatty acids
	containing less than 6 carbons, the most potent activators are probably propionate, butyrate
	and pentanoate while acetate is a poor activator (PubMed:12496283, PubMed:12711604).
	{ECO:0000269 PubMed:12496283, ECO:0000269 PubMed:12711604,
	ECO:0000269 PubMed:18801738, ECO:0000269 PubMed:23066016}.
Molecular Weight:	38.6 kDa
UniProt:	014843

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

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