Datasheet for ABIN7553946

FFAR1 Protein (AA 1-300) (His tag)

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Overview

Quantity:	1 mg
Target:	FFAR1
Protein Characteristics:	AA 1-300
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FFAR1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat FFAR1 Protein expressed in mammalien cells.
Sequence:	MDLPPQLSFG LYVAAFALGF PLNVLAIRGA TAHARLRLTP SLVYALNLGC SDLLLTVSLP LKAVEALASG AWPLPASLCP VFAVAHFFPL YAGGGFLAAL SAGRYLGAAF PLGYQAFRRP CYSWGVCAAI WALVLCHLGL VFGLEAPGGW LDHSNTSLGI NTPVNGSPVC LEAWDPASAG PARFSLSLLL FFLPLAITAF CYVGCLRALA RSGLTHRRKL RAAWVAGGAL LTLLLCVGPY NASNVASFLY PNLGGSWRKL GLITGAWSVV LNPLVTGYLG RGPGLKTVCA ARTQGGKSQK **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: • Made to order protein - from design to production - by highly experienced protein experts.

Product Details

	• 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:	FFAR1
Alternative Name:	FFAR1 (FFAR1 Products)
Background:	Free fatty acid receptor 1 (G-protein coupled receptor 40),FUNCTION: G-protein coupled receptor for medium and long chain saturated and unsaturated fatty acids that plays an important role in glucose homeostasis. Fatty acid binding increases glucose-stimulated insulin secretion, and may also enhance the secretion of glucagon-like peptide 1 (GLP-1). May also play a role in bone homeostasis, receptor signaling activates pathways that inhibit osteoclast differentiation (By similarity). Ligand binding leads to a conformation change that triggers signaling via G-proteins that activate phospholipase C, leading to an increase of the intracellular calcium concentration. Seems to act through a G(q) and G(i)-mediated pathway. Mediates the anti-inflammatory effects of omega-3 polyunsaturated fatty acids (PUFAs) via inhibition of NLRP3 inflammasome activation. {ECO:0000250|UniProtKB:Q76JU9, ECO:0000269|PubMed:12496284, ECO:0000269|PubMed:17699519, ECO:0000269|PubMed:23809162, ECO:0000269|PubMed:24130766, ECO:0000269|PubMed:24742677}.
Molecular Weight:	31.5 kDa

Target Details

UniProt:	O14842
Pathways:	Positive Regulation of Peptide Hormone Secretion, Hormone Transport, Peptide Hormone Metabolism, Carbohydrate Homeostasis

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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