

Datasheet for ABIN7548084

GPR31 Protein (AA 1-319) (His tag)



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Overview

Quantity:	1 mg
Target:	GPR31
Protein Characteristics:	AA 1-319
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR31 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant GPR31 Protein expressed in mammalian cells.
Sequence:	MPFPNCSAPS TVVATAVGVL LGLECGLGLL GNAVALWTF L FRVRVWKPYA VYLLNLALAD LLLAACLPFL AAFYLSLQAW HLGRVGCWAL HFLDLRSRV GMAFLAAVAL DRYLRVVHPR LKVNLLSPQA ALGVSGLVWL LMVALTCPGL LISEAAQNST RCHSFYSRAD GSFSIIWQEA LSCLQFVLPF GLIVFCNAGI IRALQKRLRE PEKQPKLQRA QALVTLVVVL FALCFLPCFL ARVLMHIFQN LGSCRALCAV AHTSDVTGSL TYLHSVLPV VYCFSSPTFR SSYRRVFHTL RGKGQAAEPP DFNPRDSYS 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.
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:

Product Details

- 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:	GPR31
Alternative Name:	GPR31 (GPR31 Products)
Background:	12-(S)-hydroxy-5,8,10,14-eicosatetraenoic acid receptor (12-(S)-HETE receptor) (12-HETER) (G-protein coupled receptor 31) (GPR31/12-HETER),FUNCTION: High-affinity receptor for 12-(S)-hydroxy-5,8,10,14-eicosatetraenoic acid (12-S-HETE), with much lower affinities for other HETE isomers (PubMed:21712392, PubMed:29227475). 12-S-HETE is a eicosanoid, a 12-lipoxygenase (ALOX12) metabolite of arachidonic acid, involved in many physiologic and pathologic processes (PubMed:26965684, PubMed:28619714, PubMed:29227475). 12-S-HETE-binding leads to activation of ERK1/2 (MAPK3/MAPK1), MEK, and NF-kappa-B pathways leading to cell growth (PubMed:21712392, PubMed:29227475). Plays a crucial role for proliferation, survival and macropinocytosis of KRAS-dependent cancer cells by mediating the translocation of KRAS from the endoplasmic reticulum to the plasma membrane (PM) and its association with the PM (PubMed:28619714). Contributes to enhanced immune responses by inducing dendrite protrusion of small intestinal CX3CR1(+) phagocytes for the uptake of luminal antigens (By similarity). Acts also as a key receptor for 12-(S)-HETE-mediated liver ischemia reperfusion injury (PubMed:29227475). {ECO:0000250 UniProtKB:F8VQN3,

Target Details

ECO:0000269|PubMed:21712392, ECO:0000269|PubMed:26965684,
ECO:0000269|PubMed:28619714, ECO:0000269|PubMed:29227475}., FUNCTION: Proton-
sensing G protein-coupled receptor. {ECO:0000269|PubMed:31119277}.

Molecular Weight: 35.1 kDa

UniProt: [O00270](#)

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