

Datasheet for ABIN7548127  
**GPR18 Protein (AA 1-331) (His tag)**



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## Overview

Quantity:	1 mg
Target:	GPR18
Protein Characteristics:	AA 1-331
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR18 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant GPR18 Protein expressed in mammalian cells.
Sequence:	MITLNNQDQP VPFNSSHPDE YKIAALVFYS CIFIIGLFVN ITALWVFSCT TKKRTTVTIY MMNVALVDLI FIMTLPFPMF YYAKDEWPGF EYFCQILGAL TVFYPSIALW LLAFISADRY MAIVQPKYAK ELKNTCKAVL ACVGWIMTL TTTTPLLILLY KDPDKDSTPA TCLKISDIY LKAVNVLNLT RLTTFFLIPL FIMIGCYLVI IHNLLHGRTS KLKPKVKEKS IRIIITLLVQ VLVCFMPFHI CFAFLMLGTG ENSYNPWGAF TTFLMNLSTC LDVILYYIVS KQFQARVISV MLYRNYLRSM RRKSFRRGSL RSLSNINSEM L <b>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.</b>
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

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- 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.

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Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

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## Target Details

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Target:	GPR18
Alternative Name:	GPR18 ( <a href="#">GPR18 Products</a> )
Background:	N-arachidonyl glycine receptor (NAGly receptor) (G-protein coupled receptor 18),FUNCTION: Receptor for endocannabinoid N-arachidonyl glycine (NAGly) (PubMed:16844083, PubMed:24762058, PubMed:27572937). However, conflicting results about the role of NAGly as an agonist are reported (PubMed:27018161). Can also be activated by plant-derived and synthetic cannabinoid agonists (PubMed:24762058). The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase (PubMed:16844083). May contribute to regulation of the immune system. Is required for normal homeostasis of CD8+ subsets of intraepithelial lymphocytes (IELs) (CD8alphaalpha and CD8alphabeta IELs)in small intestine by supporting preferential migration of CD8alphaalpha T-cells to intraepithelial compartment over lamina propria compartment, and by mediating their reconstitution into small intestine after bone marrow transplant (By similarity). Plays a role in hypotensive responses, mediating reduction in intraocular and blood pressure (By similarity). Mediates NAGly-induced process of reorganization of actin filaments and induction of acrosomal exocytosis (PubMed:27572937). {ECO:0000250 UniProtKB:Q8K1Z6, ECO:0000269 PubMed:16844083,

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## Target Details

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ECO:0000269|PubMed:24762058, ECO:0000269|PubMed:27572937}.

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Molecular Weight: 38.1 kDa

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UniProt: [Q14330](#)

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## Application Details

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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.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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