

Datasheet for ABIN7558528
GPR171 Protein (AA 1-319) (His tag)



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Overview

Quantity:	1 mg
Target:	GPR171
Protein Characteristics:	AA 1-319
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR171 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Gpr171 Protein expressed in mammalian cells.
Sequence:	MTNSSTFCPV YRDLEPFTYF FYLVFLIGII GSCFATWAFI QKTTNHRCVS IYLINLLTAD FLLTLALPVK IIVDLGVAPW KLRIFHCQVT ACLIYINMYL SIIFLAFVSI DRCLQLIHSC KIYRIQEPGF AKMISAVVWL MVLLIMVPMN VIPIKDIKEK SNVGCMEFKK EFGRNWHLLT NFICVAIFLN FSVILISNF LAIRQLYRNR DNTNYPVSKS ALLHILLVTA SYIICFVPYH AVRIPYTLSQ TEVISDCSTR IALFKAKEAT LLLAVSNLCF DPILYYHLSK AFRLKVTETF ASPKKS KPLE ERLRSENDV 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)
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Grade:	custom-made
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Target Details

Target:	GPR171
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Alternative Name:	Gpr171 (GPR171 Products)
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Background:	G-protein coupled receptor 171,FUNCTION: G-protein coupled receptor for Big LEN, a 16-amino acid neuropeptide produced from the precursor protein, proSAAS (encoded by PCSK1N) (PubMed:24043826, PubMed:28425495). Acts through a G(i)-alpha-mediated pathway in response to Big LEN (PubMed:24043826). Big LEN-GPR171 system plays an important role in regulating feeding and metabolism (PubMed:24043826). Also plays a role in modulating fear and anxiety-like behaviors in the basolateral amygdala (PubMed:28425495). Big LEN-GPR171 modulates the mu-type opioid receptor signaling and antinociception (PubMed:31308196). Acts as a negative regulator T cell function (PubMed:34615877). {ECO:0000269 PubMed:24043826, ECO:0000269 PubMed:28425495, ECO:0000269 PubMed:31308196, ECO:0000269 PubMed:34615877}.
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Molecular Weight:	36.7 kDa
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UniProt:	Q8BG55
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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
