

Datasheet for ABIN7563173
GPR3 Protein (AA 1-330) (His tag)



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Overview

Quantity:	1 mg
Target:	GPR3
Protein Characteristics:	AA 1-330
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Gpr3 Protein expressed in mammalian cells.
Sequence:	MMWGAGSSMA WFSAGSGSVN VSSVDPVEEP TGPATLLPSP RAWDVVLCIS GTLVSCENAL VVAIIVGTPA FRAPMFLLVG SLAVADLLAG LGLVLHFAAD FCIGSPEMSL MLVGVLAMAF TASIGSLLAI TVDRYLSLYN ALTYSETTV TRTYVMLALV WVGALGLGLV PVLAWNCRDG LTTCGVVYPL SKNHLVVLAI AFFMVFGIML QLYAQICRIV CRHAQQIALQ RHLLPASHYV ATRKGATLA VVLGAFAACW LPFTVYCLLG DADSPRLYTY LTLTPATYNS MINPVIYAFR NQDVQKVLWA ICCCCSTSKI PFRSRSPSDV 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:	GPR3
Alternative Name:	Gpr3 (GPR3 Products)
Background:	<p>G-protein coupled receptor 3 (GPCR21),FUNCTION: Constitutively active G-protein coupled receptor that maintains high 3'-5'-cyclic adenosine monophosphate (cAMP) levels that a plays a role in serveral processes including meiotic arrest in oocytes or neuronal development via activation of numerous intracellular signaling pathways (PubMed:15956199, PubMed:19259266). Acts as an essential activator of thermogenic adipocytes and drives thermogenesis via its intrinsic G(s)-coupling activity without the requirement of a ligand (PubMed:26455425, PubMed:34048700). Has a potential role in modulating a number of brain functions, including behavioral responses to stress, amyloid-beta peptide generation in neurons. Stimulates neurite outgrowth in cerebellar granular neurons modulated via PKA, ERK, and most strongly PI3K-mediated signaling pathways (PubMed:34871769).</p> <p>{ECO:0000269 PubMed:15956199, ECO:0000269 PubMed:19259266, ECO:0000269 PubMed:26455425, ECO:0000269 PubMed:34048700, ECO:0000269 PubMed:34871769}.</p>
Molecular Weight:	35.5 kDa

Target Details

UniProt: [P35413](#)

Pathways: [cAMP Metabolic Process](#)

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
