

Datasheet for ABIN7548176
GPR4 Protein (AA 1-362) (His tag)



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Overview

Quantity:	1 mg
Target:	GPR4
Protein Characteristics:	AA 1-362
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant GPR4 Protein expressed in mammalian cells.
Sequence:	<p>MGNHTWEGCH VDSRVDHLFP PSLYIFVIGV GLPTNCLALW AAYRQVQQRN ELGVYLMNLS IADLLYICTL PLWVDYFLHH DNWIHGPGSC KLFGFIFYTN IYISIAFLCC ISVDRYLAVA HPLRFARLRR VKTAVAVSSV VWATELGANS APLFHDELFR DRYNHTFCFE KFPMEGWVAW MNLRYRVFVGF LFPWALMLLS YRGILRAVRG SVSTERQEKA KIKRLALSLI AIVLVCFAPY HVLLLSRSAI YLGRPWDCGF EERVFSAYHS SLAFTSLNCV ADPILYCLVN EGARSDVAKA LHNLLRFLAS DKPQEMANAS LTLETPLTSK RNSTAKAMTG SWAATPPSQG DQVQLKMLPP AQ</p> <p>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.</p>
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:	GPR4
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Alternative Name:	GPR4 (GPR4 Products)
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Background:	G-protein coupled receptor 4 (G-protein coupled receptor 6C.I) (GPR6C.I),FUNCTION: Proton-sensing G-protein coupled receptor couples to multiple intracellular signaling pathways, including GNAS/cAMP, GNAQ/phospholipase C (PLC), and GNA12/GNA13/Rho pathways (PubMed:12955148, PubMed:17462861, PubMed:22110680, PubMed:20211729). Acidosis-induced GPR4 activation increases paracellular gap formation and permeability of vascular endothelial cells through the GNA12/GNA13/Rho GTPase signaling pathway (PubMed:32058960). In the brain may mediate central respiratory sensitivity to CO(2)H(+) (By similarity). {ECO:0000250 UniProtKB:Q8BUD0, ECO:0000269 PubMed:12955148, ECO:0000269 PubMed:17462861, ECO:0000269 PubMed:20211729, ECO:0000269 PubMed:22110680, ECO:0000269 PubMed:32058960}.
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Molecular Weight:	41.0 kDa
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UniProt:	P46093
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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
