

Datasheet for ABIN7562047
GPR161 Protein (AA 1-545) (His tag)



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Overview

Quantity:	1 mg
Target:	GPR161
Protein Characteristics:	AA 1-545
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR161 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Gpr161 Protein expressed in mammalian cells.
Sequence:	<p>MDFVQHALLT ASRGALTMSL NSSLSYRKEL SNLTATEGGE GGAVSEFIAI IIITVLVCLG NLVIVVTLYK KSYLLTLSNK FVFSLTLSNF LLSVLVLPFV VTSSIRREWI FGVVWCNFSA LLYLLISSAS MLTLGVIAID RYYAVLYPMV YPMKITGNRA VMALVYIWLH SLIGCLPPLF GWSSVEFDEF KWMCVAAWHQ EPGYTIFWQI WCALFPFLIM LVCYGFIFRV ARVKARKVHC GTVVTVEEDS QRSGRKNSS STSSSGSRRN ALQGVVYSAN QCKALITILV VIGAFMVTWG PYMWITSEA LWGKNCVSPT LETWATWLSF TSAICHPLIY GLWNKTVRKE LLGMCFGDRY YRESFVQRQR TSRLFSISNR ITDLGLSPHL TALMAGGQSL GHSSSTGDTG FSYSQDSGTD VMLLEDGTSE DNPPQHCTCP PKRRSSVTFE DEVEIQIEAA KNSLLHVKAE VHKS LDSYAA SLAKAIEAEA KINLFGEEAL PGVLFRTARTV PGAGFGGRRG SRTLNVNQLRQ LQSIKEGNVL AAEQR</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>

Product Details

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:**

- 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: GPR161

Alternative Name: Gpr161 ([GPR161 Products](#))

Background: G-protein coupled receptor 161,FUNCTION: Key negative regulator of Shh signaling, which promotes the processing of GLI3 into GLI3R during neural tube development. Recruited by TULP3 and the IFT-A complex to primary cilia and acts as a regulator of the PKA-dependent basal repression machinery in Shh signaling by increasing cAMP levels, leading to promote the PKA-dependent processing of GLI3 into GLI3R and repress the Shh signaling. In presence of SHH, it is removed from primary cilia and is internalized into recycling endosomes, preventing its activity and allowing activation of the Shh signaling. Its ligand is unknown.
{ECO:0000269|PubMed:18250320, ECO:0000269|PubMed:23332756}.

Molecular Weight: 60.3 kDa

UniProt: [B2RPY5](#)

Target Details

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