

Datasheet for ABIN7554049

GPR155 Protein (AA 1-870) (His tag)



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Overview

Quantity:	1 mg
Target:	GPR155
Protein Characteristics:	AA 1-870
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR155 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant GPR155 Protein expressed in mammalian cells.
Sequence:	<p>MNSNLPAENL TIAVNMTKTL PTAVTHGFNS TNDPPSMSIT RLFPALLECF GIVLCGYIAG</p> <p>RANVITSTQA KGLGNFVSRF ALPALLFKNM VVLNFSNVDW SFLYSILIAK ASVFFIVCVL</p> <p>TLLVASPDSR FSKAGLFPIF ATQSNDFALG YPIVEALYQT TYPEYLQYIY LVAPISLMML</p> <p>NPIGFIFCEI QKWKDTQNAS QNKIKIVGLG LLRVLQNPV FMVFIGIAFN FILDRKVPVY</p> <p>VENFLDGLGN SFGSALFYI GLTMVGKIKR LKSAFVVL ILLITAKLLVL PLLCREMVEL</p> <p>LDKGDSVNVH TSLSNYAFYI GVFPVAPGVA IFATQFNMEV EIITSGMVIS TFSAPIMYV</p> <p>SAWLLTFPTM DPKPLAYAIQ NVSFDISIVS LISLIWSLAI LLLSKKYKQL PHMLTTNLLI</p> <p>AQSIVCAGMM IWNFVKEKNF VGQILVFVLL YSSLYSTYLW TGLLAISLFL LKKRERVQIP</p> <p>VGIIISGWG IPALLVGVLL ITGKHNGDSI DSAFFYGKEQ MITTAVTLFC SILIAGISLM</p> <p>CMNQTAAQGS YEGFDQSQSH KVVPEGNTAF EESPAPVNEP ELFTSSIPET SCCSCSMGNG</p> <p>ELHCPSIEPI ANTSTSEPI PSFEKNNHCV SRCNSQSCIL AQEEEQYLQS GDQQLTRHVL</p> <p>LCLLLIIGLF ANLSSCLWWL FNQEPGRLYV ELQFFCAVFN FGQGFISFGI FGLDKHLIIL</p>

Product Details

PFKRRLEFLW NNKDTAENRD SPVSEEIKMT CQQFIHYHRD LCIRNIVKER RCGAKTSAGT
FCGCDLVSWL IEVGLASDRG EAVIYGDRLV QGGVIQHITN EYEFRDEYLF YRFLQKSPEQ
SPPAINANTL QQERYKEIEH SSPPSHSPKT **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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	GPR155
Alternative Name:	GPR155 (GPR155 Products)
Background:	Lysosomal cholesterol signaling protein (LYCHOS) (G-protein coupled receptor PGR22),FUNCTION: Cholesterol-binding protein that acts as a regulator of mTORC1 signaling pathway (PubMed:36007018). Acts as a sensor of cholesterol to signal cholesterol sufficiency to mTORC1: in presence of cholesterol, binds cholesterol, leading to disrupt interaction between the GATOR1 and KICSTOR complexes and promote mTORC1 signaling (PubMed:36007018).

Target Details

Upon cholesterol starvation, GPR155/LYCHOS is unable to perturb the association between GATOR1 and KICSTOR, leading to mTORC1 signaling inhibition (PubMed:36007018).
{ECO:0000269|PubMed:36007018}.

Molecular Weight: 96.9 kDa

UniProt: [Q7Z3F1](#)

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