

Datasheet for ABIN7548178
GPR55 Protein (AA 1-319) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	GPR55
Protein Characteristics:	AA 1-319
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR55 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant GPR55 Protein expressed in mammalian cells.
Sequence:	<p>MSQQNTSGDC LFDGVNELMK TLQFAVHIPT FVLGLLLNLL AIHGFSTFLK NRWPDYAATS</p> <p>IYMINLAVFD LLLVLSPFK MVLSQVQSPF PSLCTLVECL YFVSMYGSVF TICFISMDRF</p> <p>LAIRYPLLVS HLRSPRKIFG ICCTIWVLVW TGSIPYFSFH GKVEKYMCFH NMSDDTWSAK</p> <p>VFFPLEVFGF LLPMGIMGFC CSRSIHILLG RRDHTQDWVQ QKACIYSIAA SLAVFVVSFL</p> <p>PVHLGFFLQF LVRNSFIVEC RAKQSISSFL QLSCMFSNVN CCLDVFCYYF VIKEFRMNIR</p> <p>AHRPSRVQLV LQDTTISRG 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)
Grade:	custom-made

Target Details

Target:	GPR55
Alternative Name:	GPR55 (GPR55 Products)
Background:	G-protein coupled receptor 55,FUNCTION: G-protein coupled receptor that binds to several ligands including 2-arachidonoyl lysophosphatidylinositol or lysophosphatidylglucoside with high affinity, leading to rapid and transient activation of numerous intracellular signaling pathways (PubMed:36142844, PubMed:36523570, PubMed:37544935). Induces the Ca(2+) release from intracellular stores via ERK, the heterotrimeric G protein GNA13 and RHOA leading to morphological changes including cell rounding and stress fiber formation (PubMed:36142844). In macrophages, acts downstream of lysophosphatidylglucoside to inhibit the translocation of the phospholipid-transporting ABCA1 to plasma membrane and subsequent cholesterol efflux leading to lipid accumulation and foam cell formation (PubMed:37544935). {ECO:0000269 PubMed:19805329, ECO:0000269 PubMed:36142844, ECO:0000269 PubMed:36523570, ECO:0000269 PubMed:37544935}.
Molecular Weight:	36.6 kDa
UniProt:	Q9Y2T6

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