

[Go to Product page](#)

Datasheet for ABIN7557150
GPR174 Protein (AA 1-335) (His tag)

Overview

Quantity:	1 mg
Target:	GPR174
Protein Characteristics:	AA 1-335
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR174 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Gpr174 Protein expressed in mammalian cells.
Sequence:	MTDNFTCNKT DGDNTDFRYF IYAVTYTVIL VPGLIGNILA LWVFYGYMKE TKRAVVFMIN LAIADLLQIL SLPLRIFYYL NHDWPFGPGL CMFCFYLK YV NMYASIFYFLV CISVRRFWFL MYPFRFNDCK QKYDLYISII GWLIICLA CL LFPLLR TNDD TPGNRTKCFV DLP IRNVNLA QSVAMITIGE VVGFVTPLMI VLYCTWKTAL SLQNKYPISQ HLGEKKKALK MILTCAGVFL VCFVPYHFSF PLDFLVKSNE IKSCFARRVI LIFHSVALCL ASLNSCLDPV IYYFTTNEFR RRLSRQDLPD NIQLHTKSYK IASNHATSTV AAELC 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:	GPR174
Alternative Name:	Gpr174 (GPR174 Products)
Background:	Probable G-protein coupled receptor 174,FUNCTION: G-protein-coupled receptor of lysophosphatidylserine (LysoPS) that plays different roles in immune response. Plays a negative role in regulatory T-cell accumulation and homeostasis (PubMed:26077720). Under inflammatory conditions where LysoPS production increases, contributes to the down-regulation of regulatory T-cell activity to favor effector response (PubMed:26077720). Mediates the suppression of IL-2 production in activated T-lymphocytes leading to inhibition of growth, proliferation and differentiation of T-cells (PubMed:29457279). Mechanistically, acts via G(12)/G(13)-containing heterotrimeric G proteins to trigger elevated cyclic AMP levels and protein kinase A/PKA activity, which may in turn act to antagonize proximal TCR signaling (PubMed:29457279). Plays an important role in the initial period of sepsis through the regulation of macrophage polarization and pro- and anti-inflammatory cytokine secretions (PubMed:30850582). Upon testosterone treatment, acts as a receptor for CCL21 and subsequently triggers through G(q)-alpha and G(12)/G(13) proteins a calcium flux leading to chemotactic effects on activated B-cells (PubMed:31875850). Signals via GNA13 and PKA to

Target Details

promote CD86 up-regulation by follicular B-cells (PubMed:35639700).
{ECO:0000269|PubMed:26077720, ECO:0000269|PubMed:29457279,
ECO:0000269|PubMed:30850582, ECO:0000269|PubMed:31875850,
ECO:0000269|PubMed:35639700}.

Molecular Weight: 38.8 kDa

UniProt: [Q3U507](#)

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