

(DANRE) gpr126 Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP21136a

Specification

(DANRE) gpr126 Blocking Peptide (C-term) - Product Information

Primary Accession [C6KFA3](#)

(DANRE) gpr126 Blocking Peptide (C-term) - Additional Information

Gene ID 561970

Other Names

G-protein coupled receptor 126, gpr126

Target/Specificity

The synthetic peptide sequence is selected from aa 1135-1149 of HUMAN gpr126

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

(DANRE) gpr126 Blocking Peptide (C-term) - Protein Information

Name adgrg6

Synonyms gpr126 {ECO:0000303|PubMed:19745155}

Function

Adhesion G-protein coupled receptor (aGPCR) for steroid hormones, such as progesterone and 17alpha-hydroxyprogesterone (17OHP) (By similarity). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase (By similarity). Adgrg6 is coupled to G(i) G alpha proteins and mediates inhibition of adenylate cyclase (PubMed:25118328). Also able to couple to G(q) G proteins (PubMed:25118328). Involved in myelination of the peripheral nervous system: required for differentiation of promyelinating Schwann cells and for normal myelination of axons (PubMed:19745155, PubMed:23804499, PubMed:25118328, PubMed:25695270).

PubMed:31924782). G-protein coupled receptor activity can also be activated by type IV collagen, a major constituent of the basement membrane (PubMed:25118328). Also plays a role inner ear development (PubMed:24067352).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Expressed in Schwann cells of the posterior lateral line nerve and in brain.

(DANRE) gpr126 Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

(DANRE) gpr126 Blocking Peptide (C-term) - Images**(DANRE) gpr126 Blocking Peptide (C-term) - Background**

Orphan receptor. Required for normal differentiation of promyelinating Schwann cells and for normal myelination of axons. Signals probably through G-proteins to transiently elevate cAMP levels. Required for normal expression of the transcription factors oct6 and krox20 that are required for Schwann cells to initiate myelination.

(DANRE) gpr126 Blocking Peptide (C-term) - References

Monk K.R.,et al.Science 325:1402-1405(2009).