

GPR4 Blocking Peptide (Center)
Synthetic peptide
Catalog # BP20446c**Specification**

GPR4 Blocking Peptide (Center) - Product Information

Primary Accession [P46093](#)
Other Accession [P50132](#)

GPR4 Blocking Peptide (Center) - Additional Information

Gene ID 2828

Other Names

G-protein coupled receptor 4, G-protein coupled receptor 19, GPR4, GPR19

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.

GPR4 Blocking Peptide (Center) - Protein Information

Name GPR4

Function

Proton-sensing G-protein coupled receptor couples to multiple intracellular signaling pathways, including GNAS/cAMP, GNAQ/phospholipase C (PLC), and GNA12/GNA13/Rho pathways (PubMed:12955148, PubMed:17462861, PubMed:22110680, PubMed:20211729). Acidosis-induced GPR4 activation increases paracellular gap formation and permeability of vascular endothelial cells through the GNA12/GNA13/Rho GTPase signaling pathway (PubMed:32058960). In the brain may mediate central respiratory sensitivity to CO(2)H(+) (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein

GPR4 Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

GPR4 Blocking Peptide (Center) - Images

GPR4 Blocking Peptide (Center) - Background

Proton-sensing receptor coupled to several G-proteins, including G(s), G(13) and G(q)/G(11) proteins, leading to cAMP production.

GPR4 Blocking Peptide (Center) - References

Heiber M., et al. DNA Cell Biol. 14:25-35(1995).
Mahadevan M.S., et al. Genomics 30:84-88(1995).
An S., et al. FEBS Lett. 375:121-124(1995).
Kaighin V.A., et al. Submitted (DEC-2007) to the EMBL/GenBank/DDBJ databases.
Ota T., et al. Nat. Genet. 36:40-45(2004).