

GPR81 Blocking Peptide

Synthetic peptide

Catalog # BP6361b

Specification

GPR81 Blocking Peptide - Product Information

Primary Accession

[O9BXC0](#)

Other Accession

[NP_115943](#)**GPR81 Blocking Peptide - Additional Information****Gene ID** 27198**Other Names**

Hydroxycarboxylic acid receptor 1, G-protein coupled receptor 104, G-protein coupled receptor 81, HCAR1, GPR104, GPR81, HCA1

Target/Specificity

The synthetic peptide sequence is selected from aa 296~322 of HUMAN HCAR1

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.

GPR81 Blocking Peptide - Protein Information**Name** HCAR1**Synonyms** GPR104, GPR81, HCA1**Function**

Acts as a receptor for L-lactate and mediates its anti-lipolytic effect through a G(i)-protein-mediated pathway.

Cellular Location

Cell membrane; Multi-pass membrane protein.

Tissue Location

Expressed abundantly in brown and white fat. It also detectable at lower levels in liver, kidney, skeletal muscle, brain and pituitary. Not detected in frontal, temporal and occipital lobes of the cortex, basal forebrain, caudate nucleus, nucleus accumbens and hippocampus.

GPR81 Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

GPR81 Blocking Peptide - Images

GPR81 Blocking Peptide - Background

G protein-coupled receptors (GPCRs, or GPRs) contain 7 transmembrane domains and transduce extracellular signals through heterotrimeric G proteins. Northern analyses revealed GPR81 expression in the pituitary.

GPR81 Blocking Peptide - References

Mao, M., et al., Genomics 83(6):989-999 (2004).
Lee, D.K., et al., Gene 275(1):83-91 (2001).