

**GPR81 Blocking Peptide**

Synthetic peptide

Catalog # BP6361b

**Specification****GPR81 Blocking Peptide - Product Information**

Primary Accession [Q9BXC0](#)  
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.

**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).

**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](#)