

HCRT1 Blocking Peptide (Center)

Synthetic peptide

Catalog # BP21007a

Specification

HCRT1 Blocking Peptide (Center) - Product Information

Primary Accession

[O43613](#)**HCRT1 Blocking Peptide (Center) - Additional Information****Gene ID** 3061**Other Names**

Orexin receptor type 1, Ox-1-R, Ox1-R, Ox1R, Hypocretin receptor type 1, HCRT1

Target/Specificity

The synthetic peptide sequence is selected from aa 256-271 of HUMAN HCRT1

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.

HCRT1 Blocking Peptide (Center) - Protein Information**Name** HCRT1 ([HGNC:4848](#))**Function**

Moderately selective excitatory receptor for orexin-A and, with a lower affinity, for orexin-B neuropeptide (PubMed:[9491897](http://www.uniprot.org/citations/9491897), PubMed:[26950369](http://www.uniprot.org/citations/26950369)). Triggers an increase in cytoplasmic Ca(2+) levels in response to orexin-A binding (PubMed:[9491897](http://www.uniprot.org/citations/9491897), PubMed:[26950369](http://www.uniprot.org/citations/26950369)).

Cellular Location

Cell membrane; Multi-pass membrane protein

HCRT1 Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

HCRTR1 Blocking Peptide (Center) - Images

HCRTR1 Blocking Peptide (Center) - Background

Moderately selective excitatory receptor for orexin-A and, with a lower affinity, for orexin-B neuropeptide. Seems to be exclusively coupled to the G(q) subclass of heteromeric G proteins, which activates the phospholipase C mediated signaling cascade (By similarity).

HCRTR1 Blocking Peptide (Center) - References

Sakurai T.,et al.Cell 92:573-585(1998).
Peyron C.,et al.Nat. Med. 6:991-997(2000).
Olafsdottir B.R.,et al.Neurology 57:1896-1899(2001).
Yeager M.,et al.Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).