

**Orexin B, rat, mouse**  
**Synthetic Peptide**  
**Catalog # SP3038a****Specification**

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**Orexin B, rat, mouse - Product Information**

Primary Accession	<a href="#">O55232</a>
Other Accession	<a href="#">O55241</a>
Sequence	NH2-RPGPPGLQGRLQRLQANGNHAAGILTM-CONH2

**Orexin B, rat, mouse - Additional Information****Gene ID** 25723**Other Names**

Orexin, Hypocretin, Hcrt, Orexin-A, Hypocretin-1, Hcrt1, Orexin-B, Hypocretin-2, Hcrt2, Hcrt, Ox, Ppox

**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.

**Orexin B, rat, mouse - Protein Information****Name** Hcrt {ECO:0000312|RGD:2786}**Synonyms** Ox, Ppox**Function**

Neuropeptides that play a significant role in the regulation of food intake and sleep-wakefulness, possibly by coordinating the complex behavioral and physiologic responses of these complementary homeostatic functions (PubMed:<a href="http://www.uniprot.org/citations/11283317" target="\_blank">11283317</a>, PubMed:<a href="http://www.uniprot.org/citations/11340621" target="\_blank">11340621</a>, PubMed:<a href="http://www.uniprot.org/citations/9491897" target="\_blank">9491897</a>). A broader role in the homeostatic regulation of energy metabolism, autonomic function, hormonal balance and the regulation of body fluids, is also suggested (PubMed:<a href="http://www.uniprot.org/citations/9491897" target="\_blank">9491897</a>). A modulation effect on luteinizing hormone-releasing hormone (LHRH) secretion also suggests a more minor contribution to the regulation of reproductive function (PubMed:<a href="http://www.uniprot.org/citations/11340621" target="\_blank">11340621</a>, PubMed:<a href="http://www.uniprot.org/citations/11340621" target="\_blank">11340621</a>, PubMed:<a href="http://www.uniprot.org/citations/11340621" target="\_blank">11340621</a>).

[9879756](http://www.uniprot.org/citations/9879756)).

**Cellular Location**

Rough endoplasmic reticulum. Cytoplasmic vesicle. Synapse Note=Associated with perikaryal rough endoplasmic reticulum as well as cytoplasmic large granular vesicles at synapses

**Tissue Location**

Mainly expressed in the brain, with expression in neurons in the dorsal lateral hypothalamic area (at protein level) (PubMed:9419374). Produced by a small group of neurons restricted to the lateral and posterior hypothalamus and perifornical areas (PubMed:9491897). Positive neurons project widely throughout the entire neuroaxis (PubMed:9491897). Particularly abundant projections in the cerebral cortex, olfactory bulb, hippocampus, amygdala, septum, diagonal band of Broca, bed nucleus of the stria terminalis, thalamus, anterior and posterior hypothalamus, midbrain, brainstem, and spinal cord (PubMed:9491897). Also expressed in the enteric nervous system and pancreas (PubMed:9491897). In small amount, also detected in the testis (PubMed:9491897).

**Orexin B, rat, mouse - Images**