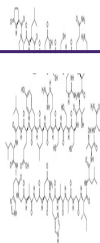


## Product Datasheet

**Orexin A Human, Mouse Rat, Bovine, Canine,  
Ovine, Porcine peptide (orb216741)**

**Description**

Orexin A Human, Mouse Rat, Bovine,


**Form/Appearance**

Lyophilized powder

**Storage**

Shipped at 4°C. Store at -20°C for one year.

**Note**

For research use only

**Application notes**

Orexin A (hypocretin-1) is a hypothalamic neuropeptide regulating the feeding behavior. Central administration of orexin A to rats stimulated food consumption in a dose-dependent manner. The effect persisted at 4 h after injection, as orexin A seems to be resistant to peptidases. Orexin A specifically binds a G protein-coupled receptor, OX<sub>1</sub>R (IC<sub>50</sub> = 20 nM to displace 50 % of radiolabeled orexin A bound to this receptor). Orexin A produced in the amygdala induces wakefulness and plays a role in the induction of human emotions. Narcolepsy has been associated with orexin deficiency.

**Protein Sequence**

pGlu-Pro-Leu-Pro-Asp-Cys-Cys-Arg-Gln-Lys-Thr-Cys-Ser-Cys-Arg-Leu-Tyr-Glu-Leu-Leu-His-Gly-Ala-Gly-Asn-His-Ala-Ala-Gly-Ile-Leu-Thr-Leu-NH<sub>2</sub> (Disulfide bridge Cys6-Cys12, Cys7-Cys14)

**Formula**
 $C_{152}H_{247}N_{47}O_{44}S_4$ 
**Purity**

&gt; 95%

**Source**

Synthetic

**MW**

3565.14

**CAS Number**

205640-90-0

**Expiration Date**

12 months from date of receipt.