

## Product datasheet

# Orexin A (bovine, human, mouse, rat), Neuropeptide involved in feeding and sleep ab120212

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### Overview

<b>Product name</b>	Orexin A (bovine, human, mouse, rat), Neuropeptide involved in feeding and sleep
<b>Description</b>	Neuropeptide involved in feeding and sleep
<b>Biological description</b>	Hypothalamic neuropeptide involved in the regulation of feeding, sleep and wakefulness.
<b>CAS Number</b>	205640-90-0
<b>Chemical structure</b>	<p> <chem>Glp-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-NH2</chem>            (Disulfide bridges: 6-12 and 7-14)         </p>

### Properties

<b>Molecular weight</b>	3561.12
<b>Molecular formula</b>	C <sub>152</sub> H <sub>243</sub> N <sub>47</sub> O <sub>44</sub> S <sub>4</sub>
<b>Sequence</b>	XPLPDCCRQKTCSCRLYELLHGAGNHAAGILTL (Modifications: C-terminal amide; X-1 = Glp; Disulfide bonds: 6-12, 7-14)
<b>PubChem identifier</b>	56842143
<b>Storage instructions</b>	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
<b>Solubility overview</b>	Soluble in water to 1mg/ml
<b>Handling</b>	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one week. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Need more advice on solubility, usage and handling? Please visit our <a href="#">frequently asked questions (FAQ) page</a> for more details.</p>
<b>Source</b>	Synthetic

### Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab120212 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

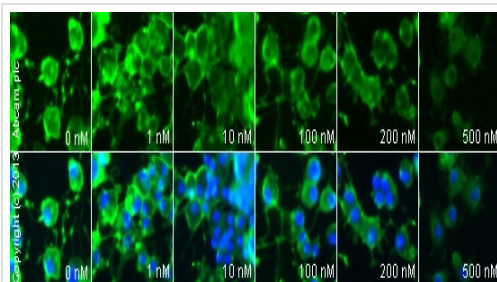
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

## Images

Glp-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 bridges: 6-12 and 7-14)

Chemical Structure - Orexin A (bovine, human, mouse, rat), Neuropeptide involved in feeding and sleep (ab120212)

2D chemical structure image of ab120212, Orexin A (bovine, human, mouse, rat), Neuropeptide involved in feeding and sleep



Immunocytochemistry/ Immunofluorescence -  
Orexin A (bovine, human, mouse, rat), Neuropeptide involved in feeding and sleep (ab120212)

**ab6211** staining tyrosine hydroxylase in PC-12 cells treated with orexin A (ab120212), by ICC/IF. Decrease in expression of tyrosine hydroxylase correlates with increased concentration of orexin A, as described in literature.

The cells were incubated at 37°C for 1h in media containing different concentrations of ab120212 (orexin A) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab6211** (1/1000 dilution) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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