

Rat orexin A

Catalog No: tcsc0025344



Available Sizes

Size: 1mg

Size: 5mg



Specifications

CAS No:

205640-90-0

Formula:

$C_{152}H_{243}N_{47}O_{44}S_4$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

H2O

Observed Molecular Weight:

3561.1

Product Description

Rat orexin A is an important neuropeptide involved in the regulation of feeding, arousal, energy consuming, and reward seeking in the body.

In Vitro: Rat orexin A is an important neuropeptide involved in the regulation of feeding, arousal, energy consuming, and reward seeking in the body. It is found that Rat orexin A promotes astrocytes migration in different time and concentrations. Rat orexin A has a maximal effect at 10 nM and 24 h treatment (increases the migrating distance of the astrocytes into ~240%, increases the

migrating area of the astrocytes into ~190%). Results also demonstrate that Rat orexin A-induced phosphorylation of ERK1/2 is significantly elevated (0.38 ± 0.03 in Rat orexin A 10 nM group vs. 0.21 ± 0.01 in control group, $n=3$, p

In Vivo: Rat orexin A delays the day of vaginal opening in rats of Group 4 comparing to that in Group 3. Results indicate that injection of Rat orexin A can ameliorate central precocious puberty in rats. Lower mRNA level of MEG3 is observed in precocious puberty rats injected with Rat orexin A than that in precocious puberty rats injected with normal saline. Rat orexin A also reverses the dysregulation of Kisspeptin in hypothalamus of central precocious puberty rats^[2]. In A6, many or most dopamine β hydroxylase (DBH)-positive neurons appear to be activated by Rat orexin A. Results also demonstrate that food intake is significantly enhanced by local Rat orexin A injection (P[3].

XPLPDCCRQKTCSCRLYELLHGAGNHAAGILT cyclic (6-12),(7-14)-bis(disulfide)

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!