

Product Data Sheet

Product Name: Neuropeptide W-30 (rat) acetate

Cat. No.: GC81729

Chemical Properties

Cas. No.

Formula $C_{165}H_{249}N_{49}O_{38}S \cdot xC_2H_4O_2$ M.Wt 3559.11

Solubility H_2O : 50 mg/mL (Need ultrasonic) Storage Sealed storage, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Trp-Tyr-Lys-His-Val-Ala-Ser-Pro-Arg-
Tyr-His-Thr-Val-Gly-Arg-Ala-Ser-Gly-
Leu-Leu-Met-Gly-Leu-Arg-Arg-Ser-Pro-
Tyr-Leu-Trp (acetate salt)

Background

Neuropeptide W-30 (rat) is an important stress mediator in the central nervous system that modulates the hypothalamus-pituitary-adrenal (HPA) axis and sympathetic outflow. Neuropeptide W-30 (rat) is an endogenous ligand for the two structurally related orphan G-protein-coupled receptors (GPCRs) GPR7 and GPR8. NPW-30 activates and binds to both GPR7 and GPR8 at similar effective

Caution: Product has not been fully validated for medical applications. For research use only.

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doses [1] [2] [3].

In Vivo, The i.c.v. administration of Neuropeptide W-30 changes secretion of anterior pituitary hormones, such as prolactin and growth hormone, and behavior, such as feeding and drinking^[1].

References:

- [1]. Makoto Kawasaki, et al. Centrally administered neuropeptide W-30 activates magnocellular neurosecretory cells in the supraoptic and paraventricular nuclei with neurosecretion in rats. J Endocrinol. 2006 Aug;190(2):213-23.
- [2]. Nan-Shou Yu, et al. Effects of intracerebroventricular administration of neuropeptide W30 on neurons in the hypothalamic paraventricular nucleus in the conscious rat. Neurosci Lett. 2007 Mar 26;415(2):140-5.
- [3]. Yukio Shimomura, et al. Identification of neuropeptide W as the endogenous ligand for orphan G-protein-coupled receptors GPR7 and GPR8. J Biol Chem. 2002 Sep 27;277(39):35826-32.

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