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Zuschläge

- Mindermengenzuschlag
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Neuropeptide W-30 (human)

Cat. No.:	HY-P10287
CAS No.:	383415-80-3
Molecular Formula:	C ₁₆₅ H ₂₄₉ N ₄₉ O ₃₇ S
Molecular Weight:	3543.11
Sequence:	Trp-Tyr-Lys-His-Val-Ala-Ser-Pro-Arg-Tyr-His-Thr-Val-Gly-Arg-Ala-Ala-Gly-Leu-Leu-Met-Gly-Leu-Arg-Arg-Ser-Pro-Tyr-Leu-Trp
Sequence Shortening:	WYKHAVASPRYHTVGRAAGLLMGLRRSPYLW
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Neuropeptide W-30 (human) is an important stress mediator in the central nervous system that modulates the hypothalamus-pituitary-adrenal (HPA) axis and sympathetic outflow. Neuropeptide W-30 (human) is an endogenous ligand for the two structurally related orphan G-protein-coupled receptors (GPCRs) GPR7 and GPR8. Neuropeptide W-30 (human) activates and binds to both GPR7 and GPR8 at similar effective doses^{[1][2][3]}.

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.

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

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