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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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[Glp5,(Me)Phe8,Sar9] Substance P (5-11)

Cat. No.: HY-P3801

CAS No.: 77128-69-9

Molecular Formula: $C_{43}H_{61}N_9O_9S$

Molecular Weight: 880.06

Sequence: pGlu-Gln-Phe-N-Methyl-Phe-Sar-Leu-Met-NH2

Sequence Shortening: pGlp-QF(-Me)F-Sar-LM-NH2

Target: Neurokinin Receptor

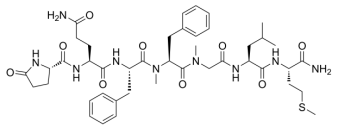
Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Sealed storage, away from moisture

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (113.63 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.1363 mL	5.6814 mL	11.3629 mL
5 mM	0.2273 mL	1.1363 mL	2.2726 mL
10 mM	0.1136 mL	0.5681 mL	1.1363 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

[Glp5,(Me)Phe8,Sar9] Substance P (5-11) (DiMe-C7) is a Substance P (HY-P0201) analogue that has approximately the same effects as Substance P (HY-P0201) on neurokinin 1 receptor (NK1R) in rat brain, but with a much longer duration of action. [Glp5,(Me)Phe8,Sar9] Substance P (5-11) selectively activates dopamine metabolism in the mesencephalon and midbrain cortex of the rat brain. [Glp5,(Me)Phe8,Sar9] Substance P (5-11) also increases motor activity and induces recovery of addictive agent-seeking behavior in rats[1][2][3].

In Vivo

[Glp5,(Me)Phe8,Sar9] Substance P (5-11) (2 μg/side; inject into the ventral tegmental area; single) exhibits selective activation of mesolimbic and mesocortical dopamine metabolism in rat brain[1].

[Glp5,(Me)Phe8,Sar9] Substance P (5-11) (0.5, 1.5, 3 μg/side; inject into the ventral tegmental area; single) increases motor activity and induces recovery of addictive agent-seeking behavior in rats[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Sprague-Dawley rats (300-350 g)[1].
Dosage:	2 μg/side
Administration:	Inject into the ventral tegmental area; single
Result:	Selectively activated mesolimbic and mesocortical dopamine metabolism.

Animal Model:	Male Wistar rats (300-350 g)[2].
Dosage:	0.5, 1.5, 3 μg/side
Administration:	Inject into the ventral tegmental area; single
Result:	Significantly increased locomotor activity when at 3 μg/side.

REFERENCES

[1]. Elliott PJ, et al. Selective activation of mesolimbic and mesocortical dopamine metabolism in rat brain by infusion of a stable substance P analogue into the ventral tegmental area. Brain Res. 1986 Jan 15;363(1):145-7.

[2]. Eison AS, et al. Substance P analog, DiMe-C7: evidence for stability in rat brain and prolonged central actions. Science. 1982 Jan 8;215(4529):188-90.

[3]. Placenza FM, et al. Infusion of the substance P analogue, DiMe-C7, into the ventral tegmental area induces reinstatement of cocaine-seeking behaviour in rats. Psychopharmacology (Berl). 2004 Dec;177(1-2):111-20.

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