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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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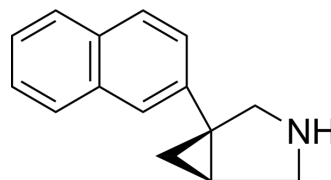
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Centanafadine

Cat. No.:	HY-16736
CAS No.:	924012-43-1
Molecular Formula:	C ₁₅ H ₁₅ N
Molecular Weight:	209.29
Target:	Adrenergic Receptor; Dopamine Transporter; Serotonin Transporter
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (597.26 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.7781 mL	23.8903 mL	47.7806 mL
	5 mM	0.9556 mL	4.7781 mL	9.5561 mL
	10 mM	0.4778 mL	2.3890 mL	4.7781 mL

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

BIOLOGICAL ACTIVITY

Description

Centanafadine is dual norepinephrine (NE)/dopamine (DA) transporter inhibitor, also inhibits serotonin transporter, with IC₅₀s of 6 nM, 38 nM and 83 nM for human NE, DA and serotonin transporter, respectively.

IC₅₀ & Target

IC₅₀: 6 nM (human NE), 38 nM (human DA), 83 nM (human serotonin)^[1].

In Vitro

Centanafadine (EB-1020) preferentially inhibits monoamine reuptake in cloned cell lines transfected with human transporters with IC₅₀ values of 6 and 38 nM, respectively, for NE and DA transporters, Centanafadine has lesser effects on 5-HT transporter as it inhibits the reuptake of 5-HT with an IC₅₀ value of 83 nM^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

In microdialysis studies, Centanafadine markedly increases NE, and DA concentrations levels in rat prefrontal cortex in vivo with peak increases of 375 and 300%, respectively with the greatest effects on NE, and also increases DA extracellular concentrations in the striatum to 400% of baseline concentrations. Behavioral studies demonstrate that Centanafadine dose-dependently decreases immobility in the mouse tail suspension test of depression to 13% of control levels, and do not stimulate locomotor activity in adult rats in the optimal dose range. Centanafadine dose-dependently inhibits locomotor hyperactivity in juvenile rats lesioned with the neurotoxin 6-hydroxydopamine (100 µg intracisternally) as neonates; a well-

established animal model for attention-deficit hyperactivity disorder (ADHD)^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Bymaster FP, et al. Pharmacological characterization of the norepinephrine and dopamine reuptake inhibitor EB-1020: implications for treatment of attention-deficit hyperactivity disorder. Synapse. 2012 Jun;66(6):522-32.

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

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