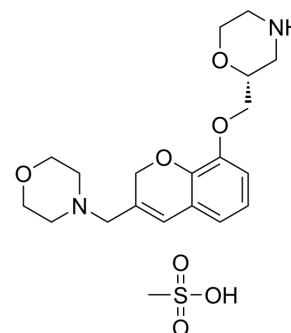


## NAS-181

Cat. No.:	HY-135507
CAS No.:	205242-62-2
Molecular Formula:	C <sub>20</sub> H <sub>30</sub> N <sub>2</sub> O <sub>7</sub> S
Molecular Weight:	442.53
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	NAS-181 is a potent and selective rat 5-hydroxytryptamine1B (r5-HT1B) antagonist with an K <sub>i</sub> value of 47 nM. NAS-181 increases the 5-HTP accumulation in rat brain regions <sup>[1]</sup> .	
<b>In Vitro</b>	NAS-181 (compound (R)-25) (0-1000 nM) increases the K <sup>+</sup> -stimulated release of [3H]-5-HT from rat occipital cortical slices <sup>[1]</sup> . NAS-181 (3 mg/kg; s.c.) increases in the number of wet dog shakes in rats, and the effect is abolished by pretreatment of the rats with the tryptophan hydroxylase inhibitor p-chlorophenylalanine (pCPA) (200 mg/kg; i.p.) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
<b>In Vivo</b>	NAS-181 (20 mg/kg; s.c.) increases the 5-HTP accumulation in rat brain regions <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Rats <sup>[1]</sup>
	Dosage:	20 mg/kg
	Administration:	S.c.
	Result:	Significantly increased the 5-HTP accumulation in hypothalamus, hippocampus, frontal cortex, striatum, and the ratio 5-HIAA/5-HT in these brain regions was even more elevated (40–60%).

### CUSTOMER VALIDATION

- Nat Neurosci. 2022 Dec;25(12):1651-1663.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

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[1]. Berg S, et al. (R)-(+)-2-[[[3-(Morpholinomethyl)-2H-chromen-8-yl]oxy]methyl] morpholine methanesulfonate: a new selective rat 5-hydroxytryptamine1B receptor antagonist. J Med Chem. 1998 May 21;41(11):1934-42.

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

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