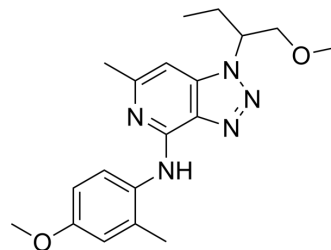


## SN003

Cat. No.:	HY-103375
CAS No.:	197801-88-0
Molecular Formula:	C <sub>19</sub> H <sub>25</sub> N <sub>5</sub> O <sub>2</sub>
Molecular Weight:	355.43
Target:	CRFR
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

### Description

SN003 is a reversible antagonist of corticotropin releasing factor receptor 1 (CRFR 1) (IC<sub>50</sub> = 241 nM) that displays more than 1000-fold selectivity over CRFR 2. SN003 suppresses CRF-induced ACTH release in vitro. SN003 attenuates depressive-like behavior in rat<sup>[1][2][3]</sup>.

## REFERENCES

[1]. J S Dileep Kumar, et al. Synthesis and in vivo evaluation of [11C]SN003 as a PET ligand for CRF1 receptors. *Bioorg Med Chem*. 2006 Jun 15;14(12):4029-34.

[2]. Simeon J Ramsey, et al. Quantitative pharmacological analysis of antagonist binding kinetics at CRF1 receptors in vitro and in vivo. *Br J Pharmacol*. 2011 Oct;164(3):992-1007.

[3]. Andrzej Wróbel, et al. Inhibition of the CRF1 receptor influences the activity of antidepressant drugs in the forced swim test in rats. *Naunyn-Schmiedeberg's Arch Pharmacol*. 2017 Aug;390(8):769-774.

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

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