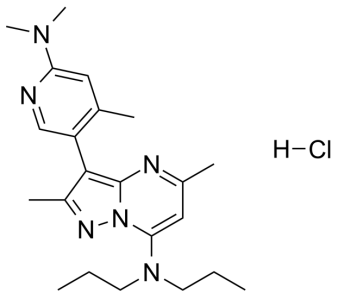
R121919 hydrochloride

Cat. No.:	HY-115645
CAS No.:	195055-66-4
Molecular Formula:	$C_{22}H_{33}ClN_6$
Molecular Weight:	416.99
Target:	CRFR
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	R121919 (NBI30775) hydrochloride is a potent and selective CRF1R antagonist with a K_i of 2 to 5 nM. R121919 hydrochloride has antidepressant and anxiolytic effects. R121919 hydrochloride alleviates defensive withdrawal in rats[1][2][3].
IC_{50} & Target	CRFR1 2-5 nM (Ki)
In Vitro	R121919 hydrochloride is a potent small-molecule CRF1 receptor antagonistwith high affinity for the CRF1 receptor and over 1000-fold weaker activity at the CRF2 receptor, CRF-binding protein, or 70 other receptor types[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	R121919 (NBI30775) hydrochloride dose dependently decreases adrenocorticopin hormone and Corticosterone (HY-B1618) responses to restraint stress in rats. Peak plasma adrenocorticopin hormone and corticosterone concentrations at a dose of 10 mg/kg R121919 are 9 and 25%, respectively[1]. R121919 hydrochloride reduces levels of anxiety in mice with a steep dose-response curve[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- SSRN. 2023 Jul 18.

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REFERENCES

[1]. Gutman DA, et al. Behavioral effects of the CRF1 recepator antagonist R121919 in rats selectively bred for high and low activity in the swim test. Psychoneuroendocrinology. 2008 Sep;33(8):1093-101.

[2]. Gutman DA, et al. The corticotropin-releasing factor1 receptor antagonist R121919 attenuates the behavioral and endocrine responses to stress. J Pharmacol Exp Ther. 2003 Feb;304(2):874-80.

[3]. Post A, et al. Identification of molecules potentially involved in mediating the in vivo actions of the corticotropin-releasing hormone receptor 1 antagonist, NBI30775 (R121919). Psychopharmacology (Berl). 2005 Jun;180(1):150-8.

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