Nemonapride

Cat. No.: HY-103415

CAS No.: 75272-39-8

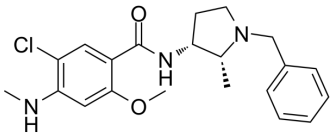
Molecular Formula: $C_{21}H_{26}ClN_3O_2$

Molecular Weight: 387.9

Target: Dopamine Receptor; 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

Description	Nemonapride is a highly potent dopamine D_2 receptor antagonist with a K_i of 0.06 nM. Nemonapride also activates 5-HT_{1A} receptor with an IC_{50} of 34 nM. Nemonapride is an antipsychotic that readily passes through the blood brain barrier and exhibits potent neuroleptic effects in animals[1][2][3].	
IC_{50} & Target	5-HT_{1A} Receptor 34 nM (IC_{50})	D_2 Receptor 0.06 nM (Ki)

REFERENCES

[1]. Terai M, et al. Selective binding of YM-09151-2, a new potent neuroleptic, to D2-dopaminergic receptors. Jpn J Pharmacol. 1983 Aug;33(4):749-55.

[2]. Seeman P, Van Tol HH. Dopamine receptor pharmacology. Trends Pharmacol Sci. 1994 Jul;15(7):264-70.

[3]. Assié MB, et al. 5-HT1A receptor agonist properties of the antipsychotic, nemonapride: comparison with bromerguride and clozapine. Eur J Pharmacol. 1997 Sep 10;334(2-3):141-7.

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

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