

Product Name : NNC 05-2090 hydrochloride

Synonyms : NNC05-2090

Cat No. : M12856

CAS Number : 184845-18-9

Molecular Formula : C₂₇H₃₁ClN₂O₂

Formula Weight : 451.01

Chemical Name : 1-[3-(9H-Carbazol-9-yl)propyl]-4-(2-methoxyphenyl)-4-piperidinol hydrochloride

Description

NNC 05-2090 is a potent selective GABA transporter inhibitor of mGAT2 with K_i of 1.4 μM; displays >10 fold selectivity over mGAT1, mGAT3 and mGAT4, also has α₁- and D₂-receptor affinity of 266 and 1632 nM, respectively; inhibits 3H-GABA uptake into synaptosomes from cerebral cortex with IC₅₀ of 4.4 μM; significantly reduces generalized seizure severity and afterdischarge duration in rats.

Pathway : Membrane Transporter/Ion Channel

Target : GAT

Receptor : GAT

Solubility : —

SMILES : COC1=CC=CC=C1C2(CCN(C2)CCCN3C4=CC=CC=C4C5=CC=CC=C53)O.Cl

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Thomsen C, et al. Br J Pharmacol. 1997 Mar;120(6):983-5. | 2. Dalby NO, et al. Epilepsy Res. 1997 Jul;28(1):51-61. | 3. Jinzenji A, et al. J Pharmacol Sci. 2014;125(2):217-26.

