GR127935 hydrochloride

Cat. No.: HY-100794

CAS No.: 148642-42-6

Molecular Formula: $C_{29}H_{32}ClN_5O_3$

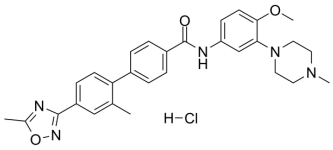
Molecular Weight: 534.05

Target: 5-HT Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: -20°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	GR127935 hydrochloride is a potent and orally active 5-HT1D and 5-HT1B receptor antagonist with pKis of 8.5 for both isoforms. GR127935 hydrochloride has 100-fold selectivity for 5-HT1B/1D receptors over 5-HT1A, 5-HT2A, and 5-HT2C receptors. GR127935 hydrochloride can be used in neurological disease research[1][2].	
IC_{50} & Target	5-HT_{1B} Receptor 8.5 (pKi)	5-HT_{1D} Receptor 8.5 (pIC_{50})

REFERENCES

[1]. J W Clitherow, et al. Evolution of a novel series of [(N,N-dimethylamino)propyl]- and piperazinylbenzanilides as the first selective 5-HT1D antagonists. J Med Chem. 1994 Jul 22;37(15):2253-7.

[2]. Mohammad Nasehi, et al. Possible involvement of CA1 5-HT1B/1D and 5-HT2A/2B/2C receptors in harmaline-induced amnesia. Pharmacol Biochem Behav. 2014 Oct;125:70-77.

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