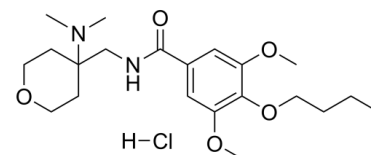


Data Sheet

Product Name:	Opiranserin (hydrochloride)
Cat. No.:	CS-0459996
CAS No.:	1440796-75-7
Molecular Formula:	C ₂₁ H ₃₅ ClN ₂ O ₅
Molecular Weight:	430.97
Target:	5-HT Receptor; GlyT; P2X Receptor
Pathway:	GPCR/G Protein; Membrane Transporter/Ion Channel; Neuronal Signaling
Solubility:	DMSO : 50 mg/mL (ultrasonic)



BIOLOGICAL ACTIVITY:

Opiranserin (VVZ-149) hydrochloride, a non-opioid and non-NSAID analgesic candidate, is a dual antagonist of **glycine transporter type 2 (GlyT2)** and **serotonin receptor 2A (5HT2A)**, with IC₅₀s of 0.86 and 1.3 μM, respectively. Opiranserin hydrochloride shows antagonistic activity on rP2X3 (IC₅₀=0.87 μM). Opiranserin hydrochloride is development as an injectable agent for the treatment of postoperative pain^{[1][2][3]}.

References:

- [1]. Oh J, et al. Safety, Tolerability, and Pharmacokinetic Characteristics of a Novel Nonopioid Analgesic, VVZ-149 Injections in Healthy Volunteers: A First-in-Class, First-in-Human Study. J Clin Pharmacol. 2018 Jan;58(1):64-73.
- [2]. Nedeljkovic SS, et al. Randomised, double-blind, parallel group, placebo-controlled study to evaluate the analgesic efficacy and safety of VVZ-149 injections for postoperative pain following laparoscopic colorectal surgery. BMJ Open. 2017 Feb 17;7(2):e011035.
- [3]. Pang MH, et al. A series of case studies: practical methodology for identifying antinociceptive multi-target drugs. Drug Discov Today. 2012 May;17(9-10):425-34.

CAIndexNames:

Benzamide, 4-butoxy-N-[[4-(dimethylamino)tetrahydro-2H-pyran-4-yl]methyl]-3,5-dimethoxy-, hydrochloride (1:1)

SMILES:

O=C(C1=CC(OC)=C(OCCCC)C(OC)=C1)NCC2(CCOCC2)N(C)C.[H]Cl

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

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