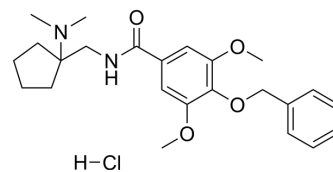


Org 25543 hydrochloride

Cat. No.:	HY-107527
CAS No.:	495076-64-7
Molecular Formula:	C ₂₄ H ₃₃ ClN ₂ O ₄
Molecular Weight:	448.98
Target:	GlyT
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Org 25543 hydrochloride is a selective and irreversible GlyT2 inhibitor (IC₅₀: 16 nM). Org 25543 hydrochloride has analgesia effect. Org 25543 hydrochloride ameliorates mechanical allodynia after partial sciatic nerve ligation injury in mice^{[1][2][3]}.

REFERENCES

- [1]. Caulfield WL, et al. The first potent and selective inhibitors of the glycine transporter type 2. *J Med Chem.* 2001 Aug 16;44(17):2679-82.
- [2]. Morita K, et al. Spinal antiallodynia action of glycine transporter inhibitors in neuropathic pain models in mice. *J Pharmacol Exp Ther.* 2008 Aug;326(2):633-45.
- [3]. Mohammadzadeh A, et al. Pharmacological Evidence on Augmented Antiallodynia Following Systemic Co-Treatment with GlyT-1 and GlyT-2 Inhibitors in Rat Neuropathic Pain Model. *Int J Mol Sci.* 2021 Mar 1;22(5):2479.

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

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