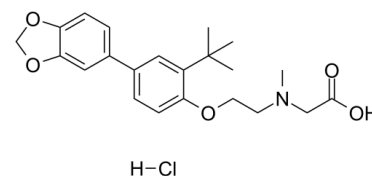


Data Sheet

Product Name:	LY2365109 (hydrochloride)
Cat. No.:	CS-5829
CAS No.:	1779796-27-8
Molecular Formula:	C ₂₂ H ₂₈ ClNO ₅
Molecular Weight:	421.91
Target:	GlyT
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Solubility:	DMSO : ≥ 31 mg/mL (73.48 mM); H ₂ O : < 0.1 mg/mL (insoluble)



BIOLOGICAL ACTIVITY:

LY2365109 hydrochloride is a potent and selective **GlyT1** inhibitor, with an **IC₅₀** of 15.8 nM for glycine uptake in cells over-expressing hGlyT1a^{[1][2]}. **In Vivo:** LY2365109 hydrochloride (0.3-30 mg/kg; p.o.) produces dose-dependent elevations in CSF levels of glycine^[1]. LY2365109 hydrochloride increases seizure thresholds in mice^[2].

References:

[1]. Perry KW et al. Neurochemical and behavioral profiling of the selective GlyT1 inhibitors ALX5407 and LY2365109 indicate a preferential action in caudal vs. cortical brain areas. *Neuropharmacology*. 2008 Oct;55(5):743-54.

[2]. Shen HY et al. Glycine transporter 1 is a target for the treatment of epilepsy. *Neuropharmacology*. 2015 Dec;99:554-65.

CAIndexNames:

Glycine, N-[2-[4-(1,3-benzodioxol-5-yl)-2-(1,1-dimethylethyl)phenoxy]ethyl]-N-methyl-,hydrochloride

SMILES:

O=C(O)CN(CCOC1=CC=C(C2=CC=C(OCO3)C3=C2)C=C1C(C)(C)C)C.Cl[H]

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

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