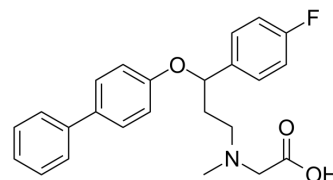


(Rac)-ALX 5407

Cat. No.:	HY-107526
CAS No.:	405225-21-0
Molecular Formula:	C ₂₄ H ₂₄ FNO ₃
Molecular Weight:	393.45
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	NFPS is a selective, non-competitive glycine transporter-1 (GlyT1) inhibitor with IC ₅₀ s of 2.8 nM and 9.8 nM for hGlyT1 and rGlyT1, respectively ^[1] . NFPS exerts neuroprotection via glyR alpha1 subunit in the rat model of transient focal cerebral ischaemia and reperfusion ^[2] .	
IC₅₀ & Target	hGlyT1 2.8 nM (IC ₅₀)	rGlyT1 9.8 nM (IC ₅₀)

REFERENCES

[1]. Mallorga PJ, et al. Pharmacology and expression analysis of glycine transporter GlyT1 with [3H]-(N-[3-(4'-fluorophenyl)-3-(4'phenylphenoxy)propyl])sarcosine. *Neuropharmacology*. 2003 Oct;45(5):585-93.

[2]. Huang B, et al. GlyT1 Inhibitor NFPS Exerts Neuroprotection via GlyR Alpha1 Subunit in the Rat Model of Transient Focal Cerebral Ischaemia and Reperfusion. *Cell Physiol Biochem*. 2016;38(5):1952-62.

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

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