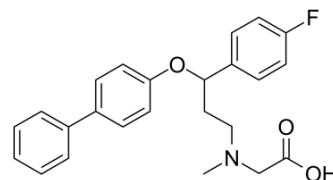


## NFPS

Cat. No.:	HY-107526
CAS No.:	405225-21-0
Molecular Formula:	C <sub>24</sub> H <sub>24</sub> FNO <sub>3</sub>
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 <sub>50</sub> s of 2.8 nM and 9.8 nM for hGlyT1 and rGlyT1, respectively <sup>[1]</sup> . NFPS exerts neuroprotection via glyR alpha1 subunit in the rat model of transient focal cerebral ischaemia and reperfusion <sup>[2]</sup> .	
IC <sub>50</sub> & Target	hGlyT1 2.8 nM (IC <sub>50</sub> )	rGlyT1 9.8 nM (IC <sub>50</sub> )

## 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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