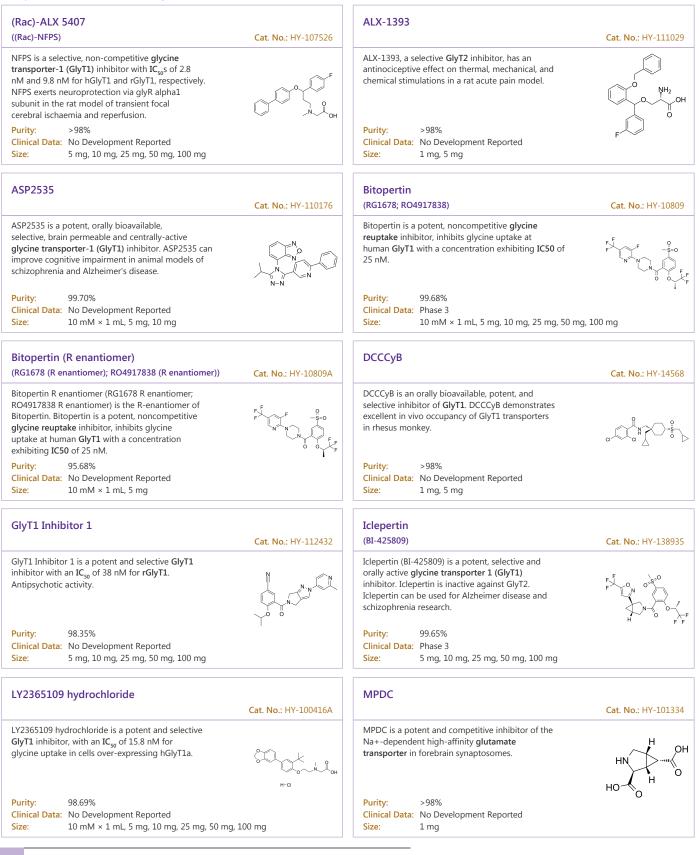




Glycine transporters (GlyTs) are members of the Na⁺/Cl⁻-dependent transporter family, whose activities and subcellular distributions are regulated by phosphorylation and interactions with other proteins. GlyTs comprise glycine transporter type 1 (SLC6A9; GlyT1) and glycine transporter type 2 (SLC6A5; Glyt2). Both GlyTs exist in multiple splice variants. GlyTs that regulate levels of brain glycine, an inhibitory neurotransmitter with co-agonist activity for NMDA receptors (NMDARs), have been considered to be important targets for the treatment of brain disorders with suppressed NMDAR function such as schizophrenia.

GlyT1 and GlyT2 are expressed on both astrocytes and neurons, but their expression pattern in brain tissue is foremost related to neurotransmission. GlyT2 is markedly expressed in brainstem, spinal cord and cerebellum, where it is responsible for glycine uptake into glycinergic and GABAergic terminals. GlyT1 is abundant in neocortex, thalamus and hippocampus, where it is expressed in astrocytes, and involved in glutamatergic neurotransmission. GlyT1 and GlyT2, which are located in glial cells and neurons, respectively play important roles by clearing synaptically released glycine or supplying glycine to glycinergic neurons to regulate glycinergic neurotransmission. Thus, inhibition of GlyTs could be used to modify pain signal transmission in the spinal cord.

GlyT Inhibitors & Antagonists



N-Arachidonylglycine		Opiranserin	
(NA-Gly)	Cat. No.: HY-103332	(VVZ-149)	Cat. No.: HY-109067
N-Arachidonylglycine (NA-Gly), a carboxylic analog of the endocannabinoid anandamide (AEA), is a GPR18 agonist (EC ₅₀ = 44.5 nM). Unlike AEA, N-Arachidonylglycine has no activity at either CB1 or CB2 receptors. N-Arachidonylglycine inhibits GLYT2 (IC ₅₀ = 5.1μ M). Purity: \geq 98.0% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg	والبر المراجع	$\begin{array}{llllllllllllllllllllllllllllllllllll$	
Opiranserin hydrochloride		Org 25935	
(VVZ-149 hydrochloride)	Cat. No.: HY-109067A		Cat. No.: HY-122666
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 IC_{so} s of 0.86 and 1.3 μ M, respectively.		Org 25935 is a potent and selective glycine transporter 1 protein (GlyT1) inhibitor with an IC_{s0} value of 100 nM. Org 25935 can decrease ethanol (EtOH) intake and EtOH preference in rats, whereas water intake is unaffected.	HCI N C
Purity:>98%Clinical Data:No Development ReportedSize:1 mg, 5 mg		Purity:>98%Clinical Data:No Development ReportedSize:1 mg, 5 mg	
PF-03463275	Cat. No .: HY-10716A	Sarcosine (N-Methylglycine; Sarcosin)	Cat. No. : HY-101037
PF-03463275 is a centrally penetrant, orally available, selective, and competitive GlyT1 (glycine transporter-1) reversible inhibitor, with a K ₁ of 11.6 nM. PF-03463275 has the potential for Schizophrenia research.		Sarcosine (N-Methylglycine), an endogenous amino acid, is a competitive glycine transporter type I (GlyT1) inhibitor and N-methyl-D-aspartate (NMDA) receptor co-agonist.	И ОН
Purity:99.57%Clinical Data:No Development ReportedSize:10 mM × 1 mL, 5 mg, 10 mg, 50 mg	CI F	Purity: ≥97.0% Clinical Data: Phase 4 Size: 10 mM × 1 mL, 100 mg	
Sarcosine-15N		Sarcosine-d3	
(N-Methylglycine-15N; Sarcosin-15N)	Cat. No.: HY-101037S	(N-Methylglycine-d3; Sarcosin-d3)	Cat. No.: HY-101037S1
Sarcosine-15N (N-Methylglycine-15N) is the 15N-labeled Sarcosine. Sarcosine (N-Methylglycine), an endogenous amino acid, is a competitive glycine transporter type I (GlyT1) inhibitor and N-methyl-D-aspartate (NMDA) receptor co-agonist.	H O ¹⁵ N OH	Sarcosine-d3 (N-Methylglycine-d3) is the deuterium labeled Sarcosine. Sarcosine (N-Methylglycine), an endogenous amino acid, is a competitive glycine transporter type I (GlyT1) inhibitor and N-methyl-D-aspartate (NMDA) receptor co-agonist.	р Н Он
Purity:>98%Clinical Data:No Development ReportedSize:1 mg, 5 mg		Purity:>98%Clinical Data:No Development ReportedSize:1 mg, 5 mg	
Stearoyl-L-carnitine chloride	Cat. No.: HY-130466	Stearoyl-L-carnitine-d3 chloride	Cat. No.: HY-130466S
Stearoyl-L-carnitine chloride is an endogenous long-chain acylcarnitine. Stearoyl-L-carnitine chloride is a less potent inhibitor of GlyT2 . Stearoyl-L-carnitine chloride inhibits glycine responses by 16.8% at concentrations up 3 µM.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Stearoyl-L-carnitine-d3 chloride is the deuterium labeled Stearoyl-L-carnitine chloride. Stearoyl-L-carnitine chloride is an endogenous long-chain acylcarnitine. Stearoyl-L-carnitine chloride is a less potent inhibitor of GlyT2 .	
Purity: ≥99.0% Clinical Data: No Development Reported Size: 5 mg, 10 mg		Purity:>98%Clinical Data:No Development ReportedSize:1 mg, 5 mg	

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Tilapertin (AMG747) Cat. No.: HY-19887 Tilapertin is an oral inhibitor of glycine transporter type-1 (GlyT1). Image: Compared type of the second second

Clinical Data: Phase 2

Size:

1 mg, 5 mg

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