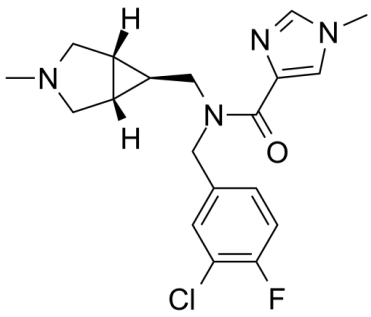
Data Sheet

Product Name:	PF-03463275
Cat. No.:	CS-0087733
CAS No.:	1173239-39-8
Molecular Formula:	$C_{19}H_{22}ClFN_4O$
Molecular Weight:	376.86
Target:	GlyT
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Solubility:	DMSO : 33.33 mg/mL (88.44 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

PF-03463275 is a centrally penetrant, orally available, selective, and competitive **GlyT1** (glycine transporter-1) reversible inhibitor, with a $\mathbf{K_i}$ of 11.6 nM. PF-03463275 has the potential for Schizophrenia research[1][2]. **In Vivo:** PF-03463275 (1-10 mg/kg; s.c.) attenuates oscillatory potentials (OPs)[2].

References:

[1]. Lowe JA 3rd, et al. The discovery of a structurally novel class of inhibitors of the type 1 glycine transporter [published correction appears in Bioorg Med Chem Lett. 2009 Aug 15;19(16):4885. Bronk, Brian S [added]; Schaeffer, Eric [added]]. Bioorg Med Chem Lett. 2009;19(11):2974-2976.

[2]. Liu CN, Pettersen B, Seitis G, Osgood S, Somps C. GlyT1 inhibitor reduces oscillatory potentials of the electroretinogram in rats. Cutan Ocul Toxicol. 2014;33(3):206-211.

CAIndexNames:

1H-Imidazole-4-carboxamide, N-[(3-chloro-4-fluorophenyl)methyl]-1-methyl-N-[[(1α,5α,6α)-3-methyl-3-azabicyclo[3.1.0]hex-6-yl]methyl]-

SMILES:

O=C(C(N=C1)=CN1C)N(CC(C=C2)=CC(Cl)=C2F)C[C@@H]3[C@](C4)([H])[C@@]3([H])CN4C

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

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