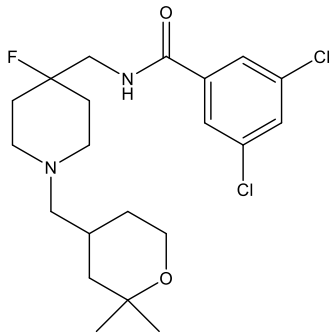
Catalog # 10-3993
TTA-P2

CAS# 918430-49-6

(±)-3,5-Dichloro-N-[[1-[(2,2-dimethyloxan-4-yl)methyl]-4-fluoropiperidin-4-yl]methyl]benzamide

Lot # FBS2158



TTA-P2 (918430-49-6) is a potent (IC_{50} = 100 nM), specific, and reversible antagonist of T-type calcium channels with no activity at high voltage calcium channels.[1,2] Highly potent in two animal models of pain *in vivo*.[3]

1) Shipe *et al.* (2008), *Design, synthesis, and evaluation of a novel 4-aminomethyl-4-fluoropiperidine as a T-type Ca2+ channel antagonist;* J. Med. Chem., **51** 3692
2) Dreyfus *et al.* (2010), *Selective T-type calcium channel block in thalamic neurons reveals channel redundancy and physiological impact of I(T)window;* J. Neurosci., **30** 99
3) Choe *et al.* (2011), *TTA-P2 is a potent and selective blocker of T-type calcium channels in rat sensory neurons and a novel antinociceptive agent*; Mol. Pharmacol., **80** 900

PHYSICAL DATA

Molecular Weight:	431.37
Molecular Formula:	$C_{21}H_{29}Cl_2FN_2O_2$
Purity:	>97% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (10 mg/ml)
Physical Description:	Tan solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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