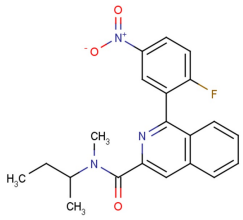
Data Sheet (Cat.No.T16547)

TargetMol
A DRUG SCREENING EXPERT

PK14105

Chemical Properties



CAS No.:	107257-28-3
Formula:	C21H20FN3O3
Molecular Weight:	381.4
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	PK14105 is a biological evaluation as a potential radioligand for PET studies of PBBS receptors. PK 14105 was injected into rats with unilaterally lesioned striata, show that PK 14105 rapidly crosses the blood-brain-barrier and that there is marked retention of radioactivity in the lesioned striatum not seen in the unlesioned striatum or cerebellar vermis. It can also inhibit receptor ligands, calcium channel ligands, and co-transporter in all salivary glands.
Targets(IC_{50})	Others: None

Solubility Information

Solubility	DMSO: 30 mg/mL (78.66 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.622 mL	13.11 mL	26.219 mL
5 mM	0.524 mL	2.622 mL	5.244 mL
10 mM	0.262 mL	1.311 mL	2.622 mL
50 mM	0.052 mL	0.262 mL	0.524 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Pascali C et al. The radiosynthesis of [18F]PK 14105 as an alternative radioligand for peripheral type benzodiazepine binding sites. Int J Rad Appl Instrum A. 1990;41(5):477-82.
2. Franklin C. Wong et al. Affinity Labeling of Membrane Receptors Using Tissue-Penetrating Radiations. Biomed Res Int. 2013, 503095.

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