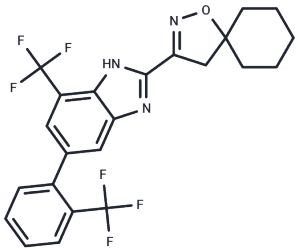
Data Sheet (Cat.No.T17006)

TargetMol

TC-I 2014

Chemical Properties



CAS No. : 1221349-53-6

Formula: C23H19F6N3O

Molecular Weight: 467.41

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	TC-I 2014 shows antiallodynic properties in pain models. TC-I 2014 is a potent and orally active Benzimidazole-containing transient receptor potential melastatin 8 antagonist (IC50: 0.8 nM, 3.0 nM, and 4.4 nM for canine, human and rat channels respectively).
Targets(IC50)	TRP/TRPV Channel
In vitro	TC-I 2014 effectively inhibits cold-induced TRPM8 currents in HEK293 cells stably expressing canine or human TRPM8 (IC50: 0.413 and 1 nM, respectively) [1].
In vivo	Administering TC-I 2014 (10 mg/kg, orally, once) completely prevents icilin-induced WDS [1].

Solubility Information

Solubility	DMSO: 225 mg/mL (481.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1394 mL	10.6972 mL	21.3945 mL
5 mM	0.4279 mL	2.1394 mL	4.2789 mL
10 mM	0.2139 mL	1.0697 mL	2.1394 mL
50 mM	0.0428 mL	0.2139 mL	0.4279 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Parks DJ, et Design and optimization of benzimidazole-containing transient receptor potential melastatin 8 (TRPM8) antagonists. J Med Chem. 2011 Jan 13;54(1):233-47.

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