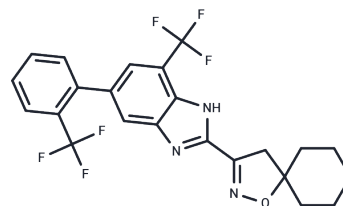


TC-I 2014

Chemical Properties

CAS No. : 1221349-53-6
Formula: C₂₃H₁₉F₆N₃O
Molecular Weight: 467.41
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



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 (IC ₅₀ : 0.8 nM, 3.0 nM, and 4.4 nM for canine, human and rat channels respectively).
Targets(IC ₅₀)	TRP/TRPV Channel
In vitro	TC-I 2014 effectively inhibits cold-induced TRPM8 currents in HEK293 cells stably expressing canine or human TRPM8 (IC ₅₀ : 0.413 and 1 nM, respectively) [1].
In vivo	TC-I 2014 (10 mg/kg, Orally once) fully avoids icilin-induced WDS [1].

Solubility Information

Solubility	DMSO: 225.0 mg/mL (481.4 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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