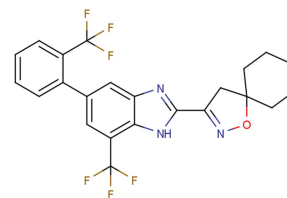


TC-I 2014

**Chemical Properties**

CAS No.: 1221349-53-6  
Formula: C<sub>23</sub>H<sub>19</sub>F<sub>6</sub>N<sub>3</sub>O  
Molecular Weight: 467.41  
Appearance: N/A  
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**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 <sub>50</sub> : 0.8 nM, 3.0 nM, and 4.4 nM for canine, human and rat channels respectively).
Targets(IC <sub>50</sub> )	TRPM8: None
In vitro	TC-I 2014 effectively inhibits cold-induced TRPM8 currents in HEK293 cells stably expressing canine or human TRPM8 (IC <sub>50</sub> : 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	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.139 mL	10.697 mL	21.394 mL
5 mM	0.428 mL	2.139 mL	4.279 mL
10 mM	0.214 mL	1.07 mL	2.139 mL
50 mM	0.043 mL	0.214 mL	0.428 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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