

Product Name: TC-I 2014

Catalog No.: 5410

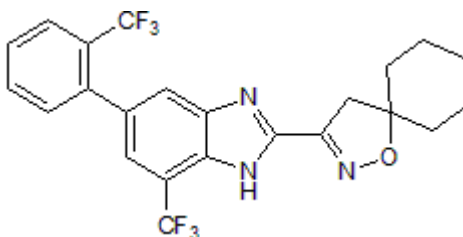
Batch No.: 1

CAS Number: 1221349-53-6

IUPAC Name: 3-[7-(Trifluoromethyl)-5-[2-(trifluoromethyl)phenyl]-1*H*-benzimidazol-2-yl]-1-oxa-2-azaspiro[4.5]dec-2-ene

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₁₉F₆N₃O
Batch Molecular Weight: 467.41
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.75 (Dichloromethane)
HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.1	4.1	8.99
Found	58.95	4.1	8.88

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Potent TRPM8 antagonist (IC₅₀ values are 0.8, 3.0 and 4.4 nM for canine, human and rat channels respectively). Exhibits antialloodynic properties in pain models in vivo.

Physical and Chemical Properties:

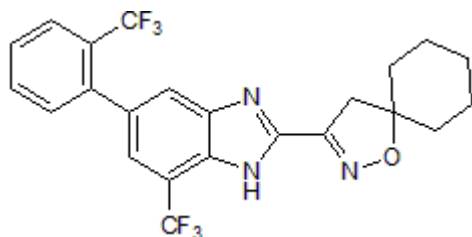
Batch Molecular Formula: C₂₃H₁₉F₆N₃O

Batch Molecular Weight: 467.41

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Parks *et al* (2011) Design and optimization of benzimidazole-containing transient receptor potential melastatin 8 (TRPM8) antagonists. *J.Med.Chem.* **54** 233. PMID: 21128593.

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