Print Date: Mar 15th 2022

Certificate of Analysis

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Product Name: **TC-N 1752** **Catalog No.: 4435** **Batch No.: 1**

CAS Number: 1211866-85-1

IUPAC Name: *N*-[2-Methyl-3-[[4-[4-[[4-(trifluoromethoxy)phenyl]methoxy]-1-piperidinyl]-1,3,5-triazin-2-yl]amino]phenyl]acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{25}H_{27}F_3N_6O_3$

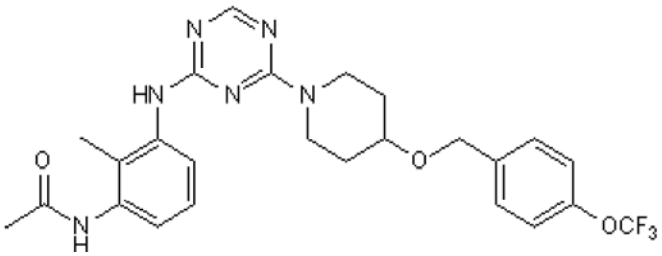
Batch Molecular Weight: 516.52

Physical Appearance: White solid

Solubility: DMSO to 100 mM
1eq. HCl to 10 mM
ethanol to 5 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.13	5.27	16.27
Found	58.21	5.23	16.26

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Product Information

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Description:

TC-N 1752 is a human Na_V channel inhibitor (IC_{50} values are 0.17, 0.3, 0.4, 1.1 and 1.6 µM at $hNa_V1.7$, $hNa_V1.3$, $hNa_V1.4$, $hNa_V1.5$ and $hNa_V1.9$ respectively). Also inhibits tetrodotoxin-sensitive sodium channels. Displays analgesic efficacy in the formalin pain model.

Physical and Chemical Properties:

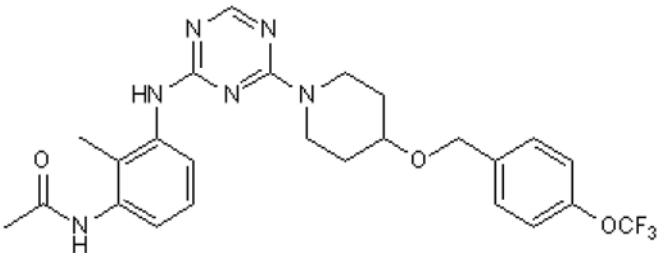
Batch Molecular Formula: $C_{25}H_{27}F_3N_6O_3$

Batch Molecular Weight: 516.52

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
1eq. HCl to 10 mM
ethanol to 5 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:

Lin *et al* (2016) Biophysical and pharmacological characterization of Nav1.9 voltage dependent sodium channels stably expressed in HEK-293 cells. PLoS One. ***11***. PMID: 27556810.

Bregman *et al* (2011) Identification of a potent, state-dependent inhibitor of Nav1.7 with oral efficacy in the formalin model of persistent pain. J.Med.Chem. ***54*** 4427. PMID: 21634377.