

Product Name: GX 201

Catalog No.: 7029

Batch No.: 1

CAS Number: 1788071-27-1

IUPAC Name: 4-[[1-[[2-Chloro-5-(trifluoromethyl)phenyl]methyl]-4-piperidinyl]methoxy]-5-cyclopropyl-2-fluoro-*N*-(methylsulfonyl)benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₇ClF₄N₂O₄S·³/₄H₂O

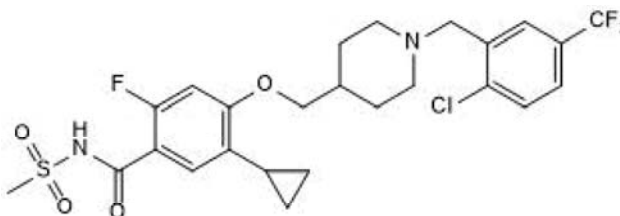
Batch Molecular Weight: 576.51

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.08	4.98	4.86
Found	51.9	4.83	4.76

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

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Description:

Potent and selective Na_v1.7 blocker (IC₅₀ = 3.2 nM). Exhibits 10x selectivity for Na_v1.7 over Na_v1.1, Na_v1.2, and Na_v1.6 channels. Displays prolonged residency time on the Na_v1.7 channel. Chronic dosing increases compound potency ~10-fold and provides efficacy that persists after the compound has cleared from plasma. Suppresses neuropathic pain in a mouse diabetic neuropathy model. Analgesic.

Physical and Chemical Properties:

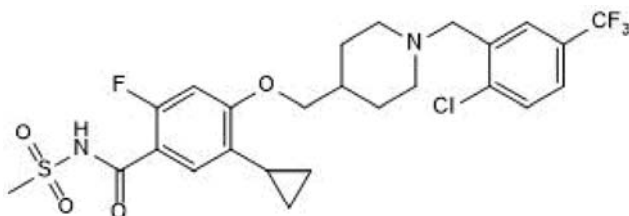
Batch Molecular Formula: C₂₅H₂₇ClF₄N₂O₄S·½H₂O

Batch Molecular Weight: 576.51

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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:

Banker et al (2018) Selective Na_v1.7 antagonists with long residence time show improved efficacy against inflammatory and neuropathic pain. *Cell Rep.* **24** 3133. PMID: 30231997.

Shields et al (2018) Insensitivity to pain upon adult-onset deletion of Na_v1.7 or its blockade with selective inhibitors *J.Neurosci.* **38** 10180. PMID: 30301756.

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