

Product Name: GSK 2833503A

Catalog No.: 6497

Batch No.: 1

CAS Number: 1366234-01-6

IUPAC Name: [2-[(4-Chloro-2-fluorophenyl)amino]-5-methyl-4-thiazolyl][(2S,3S)-2,3-dimethyl-1-piperidiny]methanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₁ClFN₃OS.

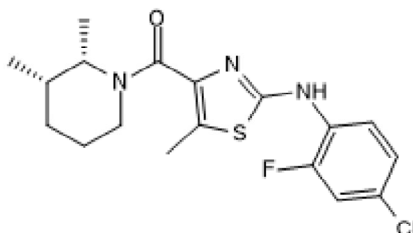
Batch Molecular Weight: 381.89

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity

Chiral HPLC: Shows 100.0% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 56.61 | 5.54 | 11 |
| Found | 56.51 | 5.47 | 10.83 |

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Description:

GSK 2833503A is a potent and selective TRPC6 and TRPC3 antagonist (IC₅₀ = 3-16 nM and 21-100 nM, respectively). GSK 2833503A exhibits >63-fold selectivity over other ion channels, including other TRP channels, Ca_v1.2, hERG and Na_v1.5. GSK 2833503A suppresses angiotensin II or endothelin-1-induced cardiac hypertrophy signaling in HEK293 cells in vitro and in cardiomyocytes.

Physical and Chemical Properties:

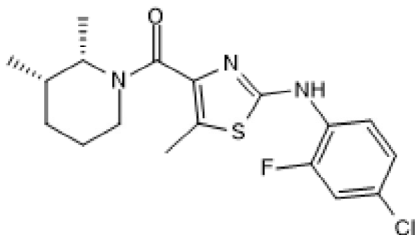
Batch Molecular Formula: C₁₈H₂₁ClFN₃OS.

Batch Molecular Weight: 381.89

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

Seo et al (2014) Combined TRPC3 and TRPC6 blockade by selective small-molecule or genetic deletion inhibits pathological cardiac hypertrophy. *Proc.Natl.Acad.Sci.U.S.A.* **111** 1551. PMID: 24453217.

Washburn et al (2013) The discovery of potent blockers of the canonical transient receptor channels, TRPC3 and TRPC6, based on an anilino-thiazole pharmacophore. *Bioorg.Med.Chem.Lett.* **23** 4979. PMID: 23886683.

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