

Product Name: RU-SKI 43 hydrochloride

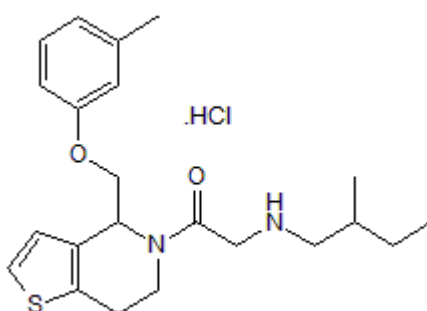
Catalog No.: 4886

Batch No.: 1

IUPAC Name: 2-((2-Methylbutyl)amino)-1-(4-((3-methylphenoxy)methyl)-6,7-dihydrothieno[3,2-c]pyridin-5(4H)-yl)ethanone hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₃₀N₂O₂S.HCl.¼H₂O
Batch Molecular Weight: 427.51
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.81	7.43	6.55
Found	61.84	7.24	6.47

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

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Description:

Hedgehog acyltransferase (Hhat) inhibitor (IC_{50} = 850 nM). Inhibits Sonic Hedgehog N (ShhN) palmitoylation in vitro. Has no effect on porcupine-induced fatty acid acylation of Wnt39a. Attenuates pancreatic cancer cell proliferation. Cell permeable.

Physical and Chemical Properties:

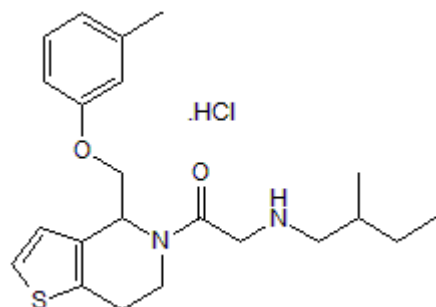
Batch Molecular Formula: $C_{22}H_{30}N_2O_2S \cdot HCl \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 427.51

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°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:

Petrova et al (2013) Inhibitors of Hedgehog acyltransferase block Sonic Hedgehog signaling. *Nat.Chem.Biol.* **9** 247. PMID: 23416332.

Petrova et al (2014) Hedgehog acyltransferase as a target in pancreatic ductal adenocarcinoma. *Oncogene.* PMID: 24469057.

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