

Product Name: Prasugrel

Catalog No.: 6317

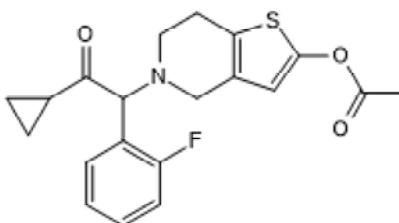
Batch No.: 1

CAS Number: 150322-43-3

IUPAC Name: 2-[2-(Acetyloxy)-6,7-dihydrothieno[3,2-c]pyridin-5(4H)-yl]-1-cyclopropyl-2-(2-fluorophenyl)ethanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₀FNO₃S
Batch Molecular Weight: 373.44
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.32	5.4	3.75
Found	64.05	5.42	3.64

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

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Description:

Prasugrel is an irreversible P2Y₁₂ antagonist; metabolised to active metabolite R-99224 (IC₅₀ = 45 µM) irreversibly binds platelet P2Y₁₂ receptors, inhibiting platelet activation. Antiplatelet and antithrombotic. Orally active and active in vivo. Note - inactive in vitro.

Physical and Chemical Properties:

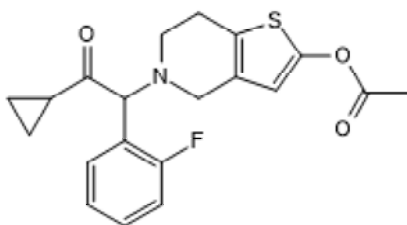
Batch Molecular Formula: C₂₀H₂₀FNO₃S

Batch Molecular Weight: 373.44

Physical Appearance: Off 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:

Huber et al (2009) Prasugrel. *Nat.Rev.Drug Discov.* **8** 449. PMID: 19483707.

Hashimoto (2007) The influence of P2Y₁₂ receptor deficiency on the platelet inhibitory activities of pras. in a mouse model: evidence for specific inhibition of P2Y₁₂ receptors by pras. *Biochem.Pharmacol.* **74** 1003. PMID: 17681285.

Sugidachi et al (2000) The *in vivo* pharmacological profile of CS-747, a novel antiplatelet agent with platelet ADP receptor antagonist properties. *Br.J.Pharmacol.* **129** 1439. PMID: 10742300.

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