

Product Name: AZD 1283

Catalog No.: 6085

Batch No.: 1

CAS Number: 919351-41-0

IUPAC Name: Ethyl 5-cyano-2-methyl-6-[4-[[[(phenylmethyl)sulfonyl]amino]carbonyl]-1-piperidinyl]-3-pyridinecarboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₆N₄O₅S·¼H₂O

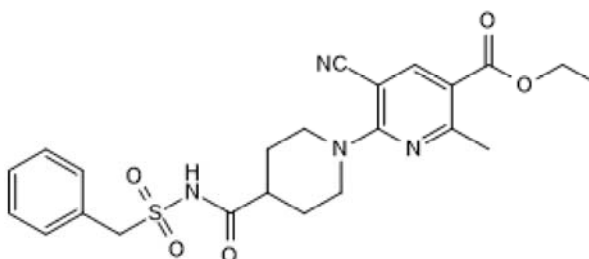
Batch Molecular Weight: 475.04

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.15	5.62	11.79
Found	58.03	5.55	11.88

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

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Description:

Potent and high affinity P2Y₁₂ antagonist (IC₅₀ = 11 nM in radioligand competition binding assay, and 25 nM in a GTPγS binding assay). Causes a dose-dependent increase in blood flow and inhibits ADP-induced platelet aggregation in vivo. Antithrombotic.

Physical and Chemical Properties:

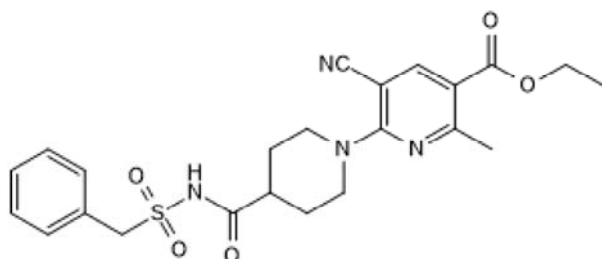
Batch Molecular Formula: C₂₃H₂₆N₄O₅S.¼H₂O

Batch Molecular Weight: 475.04

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:

Zhang et al (2014) Structure of the human P2Y₁₂ receptor in complex with an antithrombotic drug. *Nature* **509** 115. PMID: 24670650 .

Zhang et al (2014) Agonist-bound structure of the human P2Y₁₂ receptor. *Nature* **509** 119. PMID: 24784220.

Bach et al (2013) Lead optimization of ethyl 6-aminonicotinate acyl sulfonamides as antagonists of the P2Y₁₂ receptor. separation of the antithrombotic effect and bleeding for candidate drug AZD1283. *J.Med.Chem.* **56** 7015. PMID: 23899349.

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