

Product Name: AZD 1208

Catalog No.: 6310

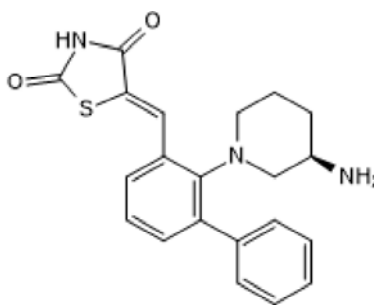
Batch No.: 1

CAS Number: 1204144-28-4

IUPAC Name: (5Z)-5-[[2-[(3R)-3-Amino-1-piperidinyl][1,1'-biphenyl]-3-yl]methylene]-2,4-thiazolidinedione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₁N₃O₂S
Batch Molecular Weight: 379.48
Physical Appearance: White solid
Solubility: DMSO to 20 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.47	5.58	11.07
Found	66.47	5.76	10.73

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

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Description:

AZD 1208 is a potent pan Pim kinase inhibitor (IC₅₀ values are 0.4, 1.9 and 5.0 nM for Pim-1, 3 and 2, respectively). Exhibits >43-fold higher affinity for Pim kinases over a range of other kinases. Induces cell cycle arrest and apoptosis in AML cell lines in vitro and inhibits growth of tumor xenografts in vivo. AZD 1208 downmodulates the expression of Mayaro virus (MAYV) structural protein E1 and non-structural protein 1 (nsP1), and it reduces MAYV replication in a dose-dependent manner in HeLa or HDFs cells. Chemosensitizer.

Physical and Chemical Properties:

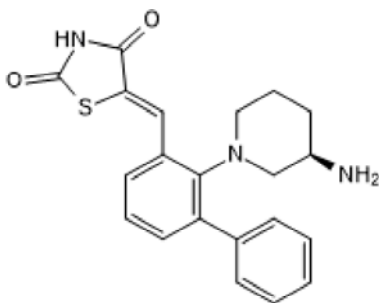
Batch Molecular Formula: C₂₁H₂₁N₃O₂S

Batch Molecular Weight: 379.48

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Salazar et al (2022) Targeting host PIM protein kinases reduces Mayaro virus replication. *Viruses* **14** 422. PMID: 35216015.

Brasó-Maristany et al (2016) PIM1 kinase regulates cell death, tumor growth and chemotherapy response in triple-negative breast cancer. *Nat.Med.* **22** 1303. PMID: 27775704.

Keeton et al (2014) AZD1208, a potent and selective pan-Pim kinase inhibitor, demonstrates efficacy in preclinical models of acute myeloid leukemia. *Blood* **123** 905. PMID: 24363397.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM with gentle warming

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.

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