

Product Name: AZD 1208

Catalog No.: 6310

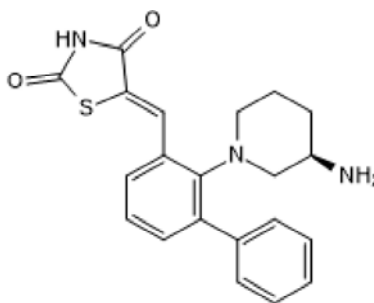
Batch No.: 1

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:

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. Chemosensitizer.

Physical and Chemical Properties:

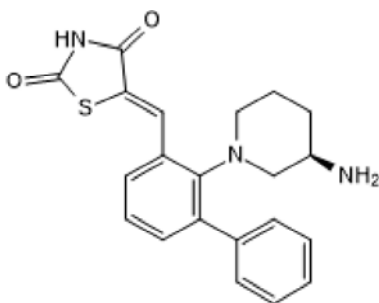
Batch Molecular Formula: C₂₁H₂₁N₃O₂S

Batch Molecular Weight: 379.48

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



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.

References:

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.

Dakin et al (2012) Discovery of novel benzylidene-1,3-thiazolidine-2,4-diones as potent and selective inhibitors of the PIM-1, PIM-2, and PIM-3 protein kinases. *Bioorg.Med.Chem.Lett.* **22** 4599. PMID: 22727640.

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