

Product Name: AZ 13824374

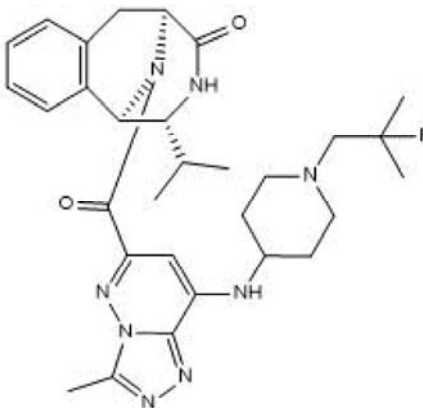
Catalog No.: 7757

Batch No.: 1

IUPAC Name: (1*R*,2*R*,5*S*)-11-(8-((1-(2-Fluoro-2-methylpropyl)piperidin-4-yl)amino)-3-methyl-[1,2,4]triazolo[4,3-*b*]pyridazine-6-carbonyl)-2-isopropyl-2,3,5,6-tetrahydro-1,5-epiminobenzo[*d*]azocin-4(1*H*)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₀ H ₃₉ FN ₈ O ₂ .
Batch Molecular Weight:	562.69
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM ethanol to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.9% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	64.04	6.99	19.91
Found	63.12	6.96	19.35

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

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Description:

AZ 13824374 is a potent and selective inhibitor of ATPase family AAA domain-containing protein 2 (ATAD2) bromodomain (pIC₅₀ values are 6.2 and 8.2 in NanoBRET assay and FRET assay, respectively). It is >100-fold selective over a range of epigenetic targets from ROMOscan panel (DiscoverX Corp.). AZ 13824374 shows cellular target engagement (cellular inhibition pIC₅₀ = 6.9) and antiproliferative activity in a range of breast cancer cell lines.

Physical and Chemical Properties:

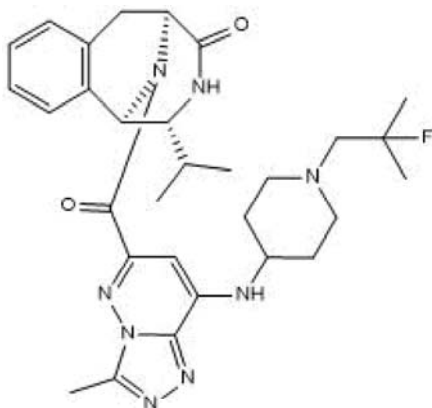
Batch Molecular Formula: C₃₀H₃₉FN₈O₂.

Batch Molecular Weight: 562.69

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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.

Licensing Information:

Sold with the permission of AstraZeneca UK Ltd.

References:

Winter-Holt et al (2022) Discovery of a potent and selective ATAD2 bromodomain inhibitor with antiproliferative activity in breast cancer models. *J.Med.Chem.* **65** 3306. PMID: 35133824.

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