

**Product Name:** AZ 13824374

**Catalog No.:** 7757

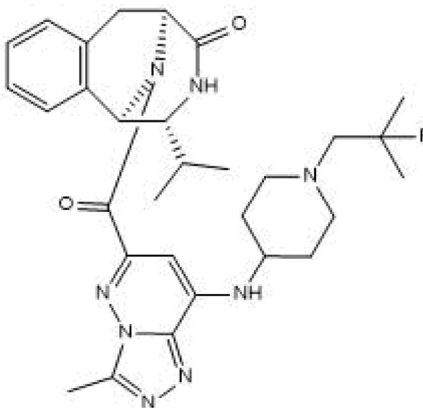
**Batch No.:** 1

CAS Number: 3040082-19-4

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

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



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 98.9% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	

	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 (pIC<sub>50</sub> 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 pIC<sub>50</sub> = 6.9) and antiproliferative activity in a range of breast cancer cell lines.

**Physical and Chemical Properties:**

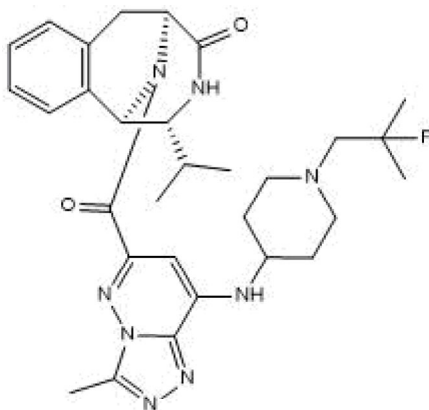
Batch Molecular Formula: C<sub>30</sub>H<sub>39</sub>FN<sub>8</sub>O<sub>2</sub>.

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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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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