

**Product Name:** AZD 6482

**Catalog No.:** 4839

**Batch No.:** 1

CAS Number: 1173900-33-8

IUPAC Name: (-)-2-[[[(1R)-1-[7-Methyl-2-(4-morpholinyl)-4-oxo-4H-pyrido[1,2-a]pyrimidin-9-yl]ethyl]amino]benzoic acid

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{22}H_{24}N_4O_4 \cdot 1\frac{1}{4}H_2O$

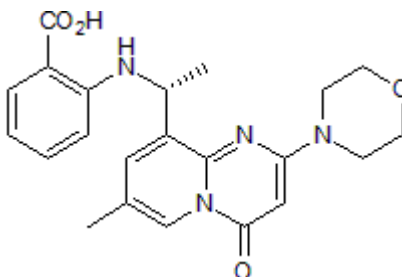
**Batch Molecular Weight:** 430.97

**Physical Appearance:** Off-white solid

**Solubility:** DMSO to 100 mM  
1eq. HCl to 10 mM  
ethanol to 20 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.9% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Optical Rotation:**  $[\alpha]_D = -450.6$  (Concentration = 0.2, Solvent = Methanol)

**Microanalysis:**

Carbon Hydrogen Nitrogen

|             |       |      |       |
|-------------|-------|------|-------|
| Theoretical | 61.31 | 6.2  | 13    |
| Found       | 61.3  | 6.03 | 12.84 |

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

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**Description:**

Potent and selective inhibitor of PI 3-kinase  $\beta$  (PI 3-K $\beta$ ) (IC<sub>50</sub> values are 0.69, 13.6, 47.8 and 136 nM for PI 3-K $\beta$ , PI 3-K $\delta$ , PI 3-K $\gamma$  and PI 3-K $\alpha$ , respectively). Selectively inhibits in vivo growth of the PTEN-deficient tumor xenografts HCC70 and PC3. Also exhibits antithrombotic activity.

**Physical and Chemical Properties:**

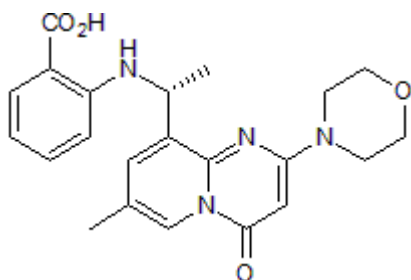
Batch Molecular Formula: C<sub>22</sub>H<sub>24</sub>N<sub>4</sub>O<sub>4</sub> · 1 ¼ H<sub>2</sub>O

Batch Molecular Weight: 430.97

Physical Appearance: Off-white solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

1eq. HCl to 10 mM

ethanol to 20 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:**

**Nylander et al** (2012) Human target validation of phosphoinositide 3-kinase (PI3K) $\beta$ : effects on platelets and insulin sensitivity, using AZD6482 a novel PI3K $\beta$  inhibitor. *J.Thromb.Haemost.* **10** 2127. PMID: 22906130.

**Ni et al** (2012) Functional characterization of an isoform-selective inhibitor of PI3K-p110 $\beta$  as a potential anticancer agent. *Cancer Discov.* **2** 425. PMID: 22588880.

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