

**Product Name:** AZ 14145845

**Catalog No.:** 8023

**Batch No.:** 1

CAS Number: 2830555-70-7

IUPAC Name: 3-[4-[(Dimethylamino)methyl]phenyl]-*N*-methyl-*N*-[5-[3-methyl-5-(1,3,5-trimethyl-1*H*-pyrazol-4-yl)-2-pyridinyl]-1,3,4-oxadiazol-2-yl]imidazo[1,2-*a*]pyridine-6-methanamine

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>32</sub>H<sub>35</sub>N<sub>9</sub>O.¼H<sub>2</sub>O

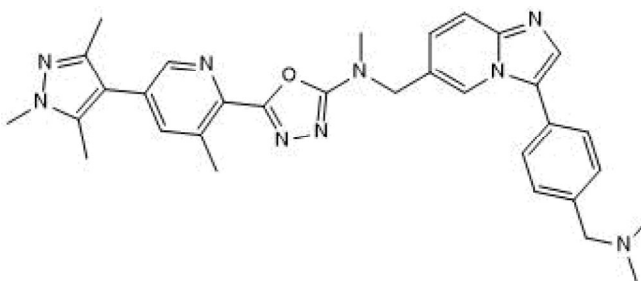
**Batch Molecular Weight:** 566.19

**Physical Appearance:** Pale yellow solid

**Solubility:** DMSO to 100 mM  
ethanol to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 97.2% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	67.88	6.32	22.26
Found	66.95	6.34	21.95

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

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**Description:**

AZ 14145845 is a potent, and highly selective dual Mer/Axl kinase inhibitor (pIC<sub>50</sub> = 7 nM and 7.8 nM in pAxl and pMer, respectively). In vivo, AZ 14145845 shows dose-dependent reduction of tumor growth in the Mer and Axl kinase Ba/F3 tumor xenograft model. AZ 14145845 combined with anti-PD1 antibodies and ionizing radiation increases survival in mice with tumors derived from MC38 cells in vivo. AZ 14145845 is orally bioavailable.

**Physical and Chemical Properties:**

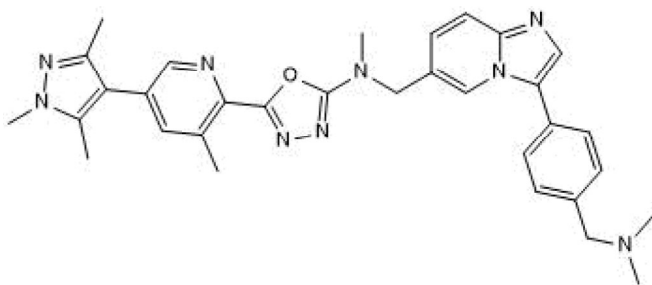
Batch Molecular Formula: C<sub>32</sub>H<sub>35</sub>N<sub>9</sub>O.¼H<sub>2</sub>O

Batch Molecular Weight: 566.19

Physical Appearance: Pale yellow solid

**Minimum Purity:** ≥97%

**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.

**References:**

**McCoull et al** (2021) Optimization of an Imidazo[1,2-a]pyridine series to afford highly selective type I1/2 Dual Mer/Axl kinase inhibitors with *in vivo* efficacy. *J.Med.Chem.* **64** 13524. PMID: 34478292.

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**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956