

Product Name: α1A-AR Degradar 9c

Catalog No.: 7278

Batch No.: 1

CAS Number: 2863635-02-1

IUPAC Name: 2-(2-(2-(2-(4-(4-Amino-6,7-dimethoxyquinazolin-2-yl)piperazine-1-carbonyl)-1*H*-1,2,3-triazol-1-yl)ethoxy)ethoxy)ethoxy)-*N*-(2-(2,6-dioxopiperidin-3-yl)-1,3-dioxoisindolin-4-yl)acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₈H₄₃N₁₁O₁₁·³/₄H₂O

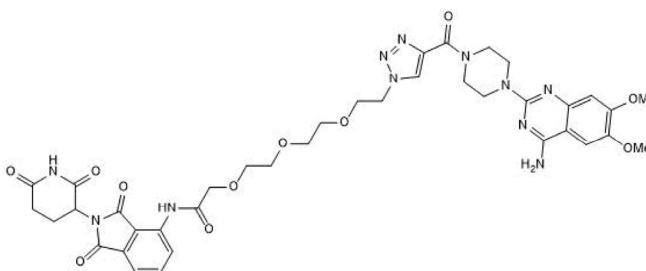
Batch Molecular Weight: 843.34

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.12	5.32	18.27
Found	53.8	5.23	17.89

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

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Description:

α1A-AR Degradar 9c is a selective α_{1A}-adrenergic receptor Degradar (PROTAC®; DC₅₀ = 2.86 μM, 94% α_{1A}-adrenoceptor degradation at 10 μM for 12 h). It comprises the α-adrenoceptor antagonist Prazosin (Cat. No. 0623), joined by a linker to a cereblon ligand Pomalidomide (Cat. No. 6302). α1A-AR Degradar 9c selectively downregulates α_{1A}-adrenoceptor levels, but not α_{1B}-AR and α_{1D}-AR in HEK293 cells. α1A-AR Degradar 9c shows concentration-dependent antiproliferative activity in PC-3 prostate cancer cells (IC₅₀ = 6.12 μM) in vitro, and PC-3 tumor xenografts in vivo. α1 AR a... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

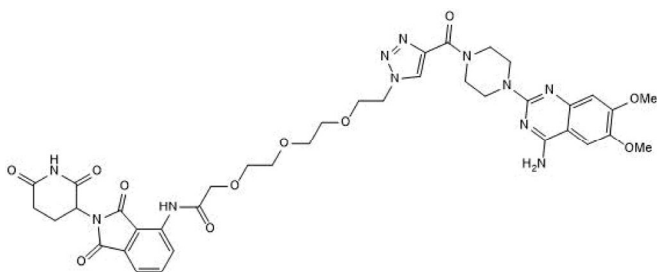
Batch Molecular Formula: C₃₈H₄₃N₁₁O₁₁·¾H₂O

Batch Molecular Weight: 843.34

Physical Appearance: Beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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:

Li *et al* (2020) First small-molecule PROTACs for G protein-coupled receptors: inducing α_{1A}-adrenergic receptor degradation. *Acta.Pharm.Sin.B* **10** (9) 1669. PMID: 33088687.

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