

Product Name: IRAK3 Degradar 23

Catalog No.: 7983

Batch No.: 1

CAS Number: 2712600-00-3

IUPAC Name: 2-(2,6-Dioxo-3-piperidyl)-5-[4-[2-[1-[4-[4-[*cis*-4-[(5-isopropylpyrrolo[2,1-*f*][1,2,4]triazin-4-yl)amino]cyclohexyl]-piperazin-1-yl]-4-oxo-butanoyl]-4-piperidyl]ethyl]piperazin-1-yl]-isoindoline-1,3-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₇H₆₃N₁₁O₆.H₂O

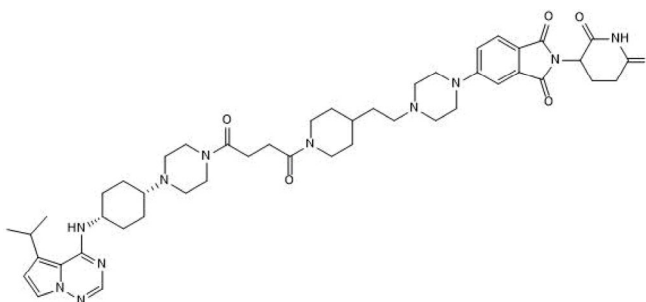
Batch Molecular Weight: 896.11

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63	7.31	17.19
Found	62.03	7.25	16.77

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

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Description:

IRAK3 Degrader 23 is a potent and selective IRAK3 Degrader (PROTAC®; DC₅₀ = 2 nM; D_{max} = 98% in THP1 cells and primary macrophages), requires CRBN and IRAK3 binding for Degradation activity. Also inhibits CDK11, CDK8, TRKC and GSG2 (IC₅₀ values are 16 nM, 36 nM, 100 nM and 110 nM respectively). PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license.

Physical and Chemical Properties:

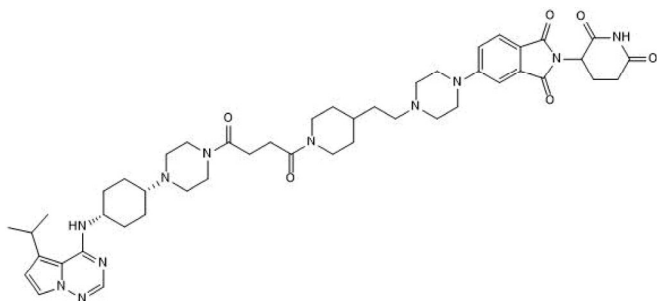
Batch Molecular Formula: C₄₇H₆₃N₁₁O₆·H₂O

Batch Molecular Weight: 896.11

Physical Appearance: Yellow 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:

Degorce et al (2020) Discovery of proteolysis-targeting chimera molecules that selectively degrade the IRAK3 pseudokinase. *J. Med. Chem.* **63** 10460. PMID: 32803978.

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