bio-techne
TOCRIS

Print Date: Oct 11th 2024

Certificate of Analysis

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Product Name: **MS 159** **Catalog No.: 8079** **Batch No.: 1**

CAS Number: 3031353-59-7

IUPAC Name: *N*-Cyclopropyl-*N*-(4-((5-(3-(2-((2-(2,6-dioxopiperidin-3-yl)-1,3-dioxoisoindolin-4-yl)amino)acetamido)propoxy)pyridin-2-yl)-carbamoyl)benzyl)-3-oxo-3,4-dihydro-2*H*-benzo[*b*][1,4]oxazine-7-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{43}H_{40}N_8O_{10}.1¾H_2O$

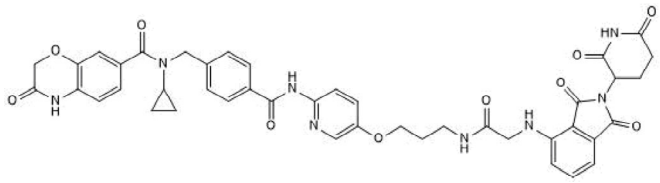
Batch Molecular Weight: 860.36

Physical Appearance: Pale yellow solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.03	5.1	13.02
Found	59.07	5.03	12.69

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Description:

MS 159 is a nuclear receptor binding SET structural domain protein 2 (NSD2) Degrader (DC_{50} = 5.2 µM, D_{max} = >82%). Also degrades IKZF3 and IKZF1. Comprises an NSD2 binding moiety joined by a linker to a cereblon E3 ligase ligand. Inhibits proliferation of KMS11 and H929 tumor cells. Bioavailable in vivo. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license.

Physical and Chemical Properties:

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Minimum Purity: ≥98%

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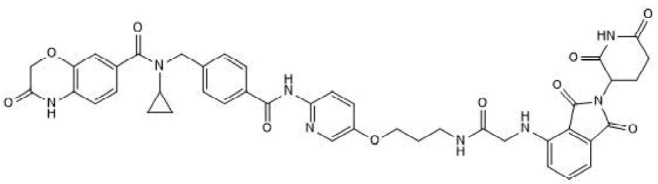

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 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:

Meng *et al* (2022) Discovery of a first-in-class degrader for nuclear receptor binding SET domain protein 2 (NSD2) and Ikaros/Aiolos. J.Med.Chem. ***65*** 10611. PMID: 35895319.