bio-techne
TOCRIS

Print Date: Jul 2nd 2026

Certificate of Analysis

www.tocris.com

Product Name: **MS 41** **Catalog No.: 8919** **Batch No.: 1**

CAS Number: 2768610-97-3

IUPAC Name: 5-[4-(Dimethylcarbamoyl)-3-hydroxyphenyl]-*N*-[(1*R*)-6-[[10-[[(2*S*)-1-[(2*S*,4*R*)-4-hydroxy-2-[[(1*S*)-1-[4-(4-methyl-1,3-thiazol-5-yl)phenyl]ethyl]carbamoyl]pyrrolidin-1-yl]-3,3-dimethyl-1-oxobutan-2-yl]amino]-10-oxodecyl]carbamoyl]-2,3-dihydro-1*H*-inden-1-yl]-1,2-oxazole-3-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{56}H_{70}N_8O_9S.½H_2O$

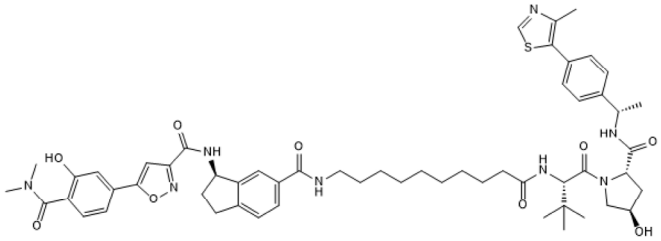
Batch Molecular Weight: 1040.29

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.0% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.66	6.88	10.77
Found	63.76	6.97	10.66

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Description:

MS 41 is a potent and selective degrader of Eleven-Nineteen Leukemia (ENL), a histone acylation reader crucial in sustaining oncogenic gene expression, especially in MLL-r (Mixed Lineage Leukemia-rearranged) leukemia. DC50 = 2.84 nM, 3.03 nM, 3.50 nM and 26.58 nM in SEMK2, Jurkat, MV4;11 and KASUMI1 cells, respectively. Comprises an ENL-binding moiety (PFI-6) joined by a linker to VHL1-Me as the ligand for von Hippel-Lindau E3 ubiquitin ligase. MS41 effectively inhibits leukemia cell proliferation and clonogenic ability in vitro and suppresses leukemia progression in a xenograft mouse model of MLL-r leukemia in vivo. PROTAC® is ... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

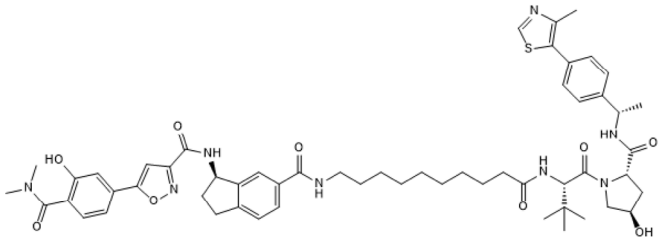
Batch Molecular Formula: $C_{56}H_{70}N_8O_9S.½H_2O$

Batch Molecular Weight: 1040.29

Physical Appearance: White solid

Minimum Purity: ≥97%

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:

Xue *et al* (2024) A potent and selective ENL degrader suppresses oncogenic gene expression and leukemia progression. Sci.Adv. ***10***.