

Product Name: MD13

Catalog No.: 7503

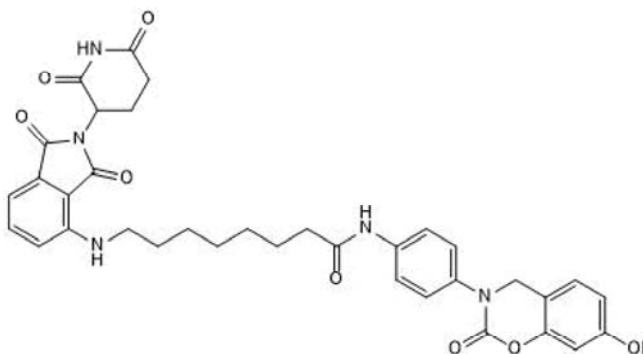
Batch No.: 1

CAS Number: 2758431-97-7

IUPAC Name: 8-((2-(2,6-Dioxopiperidin-3-yl)-1,3-dioxoisindolin-4-yl)amino)-N-(4-(7-hydroxy-2-oxo-2H-benzo[e][1,3]oxazin-3(4H)-yl)phenyl)octanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₅ H ₃₅ N ₅ O ₈ .H ₂ O
Batch Molecular Weight:	671.71
Physical Appearance:	Yellow solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.2% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon Hydrogen Nitrogen		
Theoretical	62.58	5.55	10.43
Found	62.52	5.49	10.32

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

Product Name: MD13

Catalog No.: 7503

1

CAS Number: 2758431-97-7

IUPAC Name: 8-((2-(2,6-Dioxopiperidin-3-yl)-1,3-dioxoisindolin-4-yl)amino)-N-(4-(7-hydroxy-2-oxo-2H-benzo[e][1,3]oxazin-3(4H)-yl)phenyl)octanamide

Description:

MD13 is a potent MIF (macrophage migration inhibitory factor) Degradar (PROTAC®) ($DC_{50} < 100$ nM; $D_{max} = 92\%$ after 6 h). MD13 comprises the cereblon ligand Pomalidomide (Cat. No. 6302) joined by a linker to a MIF inhibitor. MD13 reduces MIF levels, arrests cells at the G₂/M phase and inhibits proliferation of A549 lung carcinoma cells. Growth of A549 cell 3D spheroids is also inhibited by MD 13. Negative control MD15 (Cat.No. 7504) also available. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

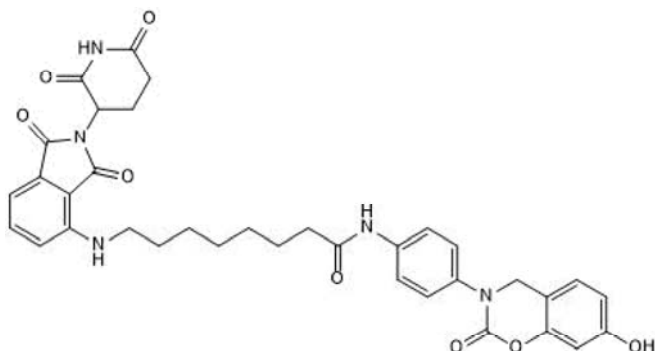
Batch Molecular Formula: C₃₅H₃₅N₅O₈·H₂O

Batch Molecular Weight: 671.71

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Xiao *et al* (2021) Proteolysis targeting chimera (PROTAC) for macrophage migration inhibitory factor (MIF) has anti-proliferative activity in lung cancer cells. *Angew.Chem.Int.Ed.Engl.* **60** 17514. PMID: 34018657.

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. Our standard recommendations are:

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.

Licensing Information:

Sold with kind permission of Professor Dekker.

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

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