

Product Name: TL 13-12

Catalog No.: 6744

Batch No.: 1

CAS Number: 2229037-04-9

IUPAC Name: *N*-(2-(2-(2-(4-(4-((5-Chloro-4-((2-(isopropylsulfonyl)phenyl)amino)pyrimidin-2-yl)amino)-3-methoxyphenyl)piperazin-1-yl)ethoxy)ethoxy)ethyl)-2-((2-(2,6-dioxopiperidin-3-yl)-1,3-dioxoisoindolin-4-yl)amino)acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₅H₅₃ClN₁₀O₁₀S.½H₂O

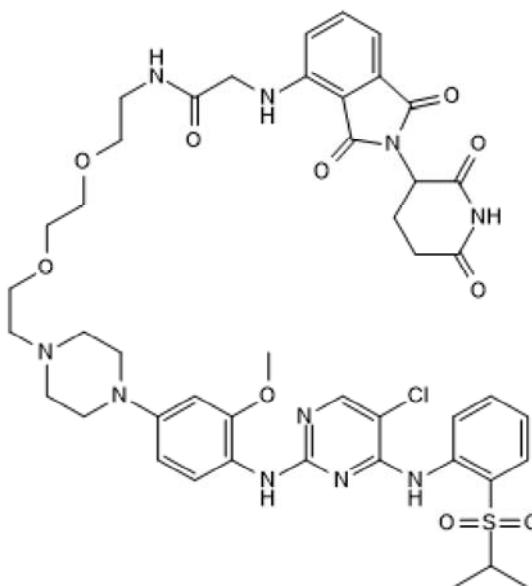
Batch Molecular Weight: 970.49

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.46 (Dichloromethane:Methanol [9:1])

HPLC: Shows 98.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	55.69	5.61	14.43
Found	55.49	5.32	14.12

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

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Description:

TL 13-12 is a selective anaplastic lymphoma kinase (ALK) Degradator (PROTAC[®]) (DC₅₀ values are 10 and 180 nM in H3122 and Karpas 299 cells, respectively). Comprises the cereblon E3 ligase ligand Pomalidomide (Cat. No. 6302), conjugated to an ALK inhibitor. Inhibits proliferation of ALK-positive cancer cell lines. Exhibits higher selectivity for ALK over Aurora A kinase compared with TL 13 -112 (Cat.No. 6745). Maximum degradation is exhibited at 16 h. Negative control TL 13-22 (Cat. No. 6747) 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:

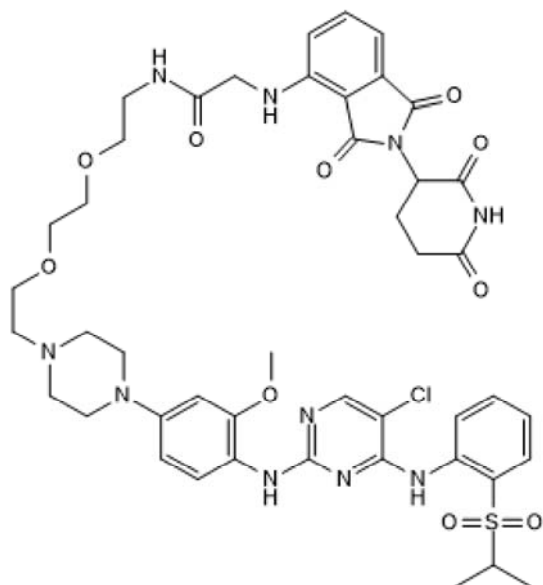
Batch Molecular Formula: C₄₅H₅₃ClN₁₀O₁₀S_{1/2}H₂O

Batch Molecular Weight: 970.49

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Powell et al (2018) Chemically induced degradation of anaplastic lymphoma kinase (ALK). *J.Med.Chem.* **61** 4249. PMID: 29660984.

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 under license from Dana-Farber Cancer Institute

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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

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Tel:+1 612 379 2956