bio-techne
TOCRIS

Print Date: Mar 14th 2024

Certificate of Analysis

www.tocris.com

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: $C_{45}H_{53}ClN_{10}O_{10}S.½H_2O$

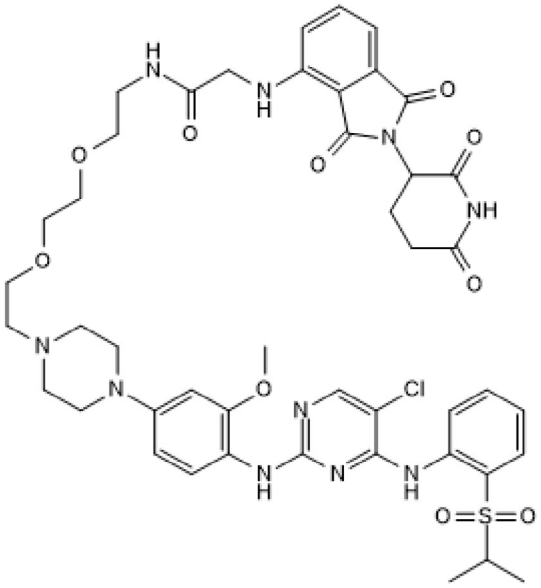
Batch Molecular Weight: 970.49

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

^{1}H 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

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Description:

TL 13-12 is a selective anaplastic lymphoma kinase (ALK) Degrader (PROTAC®) (DC_{50} 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) and ALK antibody validated for Simple Western™ (automated Western) instruments and Western Blot also available: Catalog # AF4210. PROTAC... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

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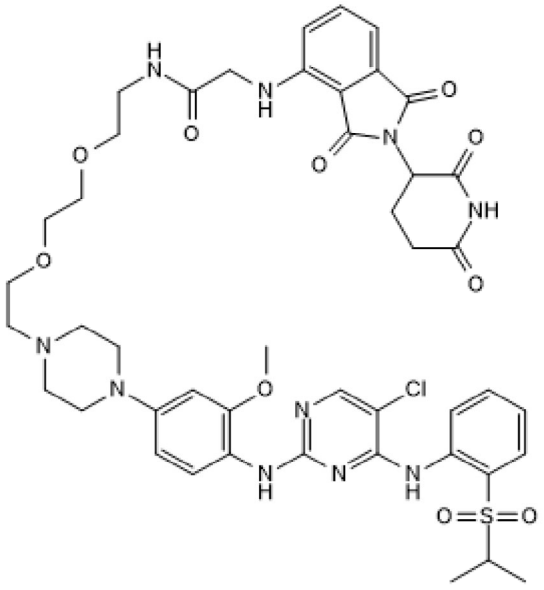
Physical Appearance: Yellow solid

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.

Licensing Information:

Sold under license from Dana-Farber Cancer Institute

References:

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