Certificate of Analysis

Product Name: **TL 13-112** **Catalog No.: 6745** **Batch No.: 2**

CAS Number: 2229037-19-6

IUPAC Name: *N*-[2-[2-[2-[4-[4-[[5-Chloro-4-[[2-[(1-methylethyl)sulfonyl]phenyl]amino]-2-pyrimidinyl]amino]-2-methyl-5-(1-methylethoxy)phenyl]-1-piperidinyl]ethoxy]ethoxy]ethyl]-2-[[2-(2,6-dioxo-3-piperidinyl)-2,3-dihydro-1,3-dioxo-1*H*-isoindol-4-yl]amino]acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{49}H_{60}ClN_9O_{10}S.¾H_2O$

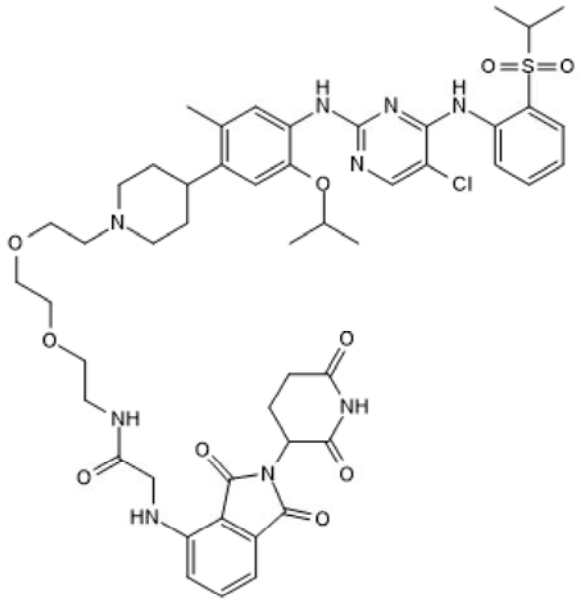
Batch Molecular Weight: 1016.08

Physical Appearance: Yellow solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.1% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.92	6.1	12.41
Found	57.49	6.04	12.19

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Product Information

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Description:

TL 13-112 is a selective anaplastic lymphoma kinase (ALK) Degrader (PROTAC®) (DC_{50} values are 10 and 40 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. Maximum degradation exhibited at 16 h. Negative control TL 13-110 (Cat. No. 6746) also available. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license.

Physical and Chemical Properties:

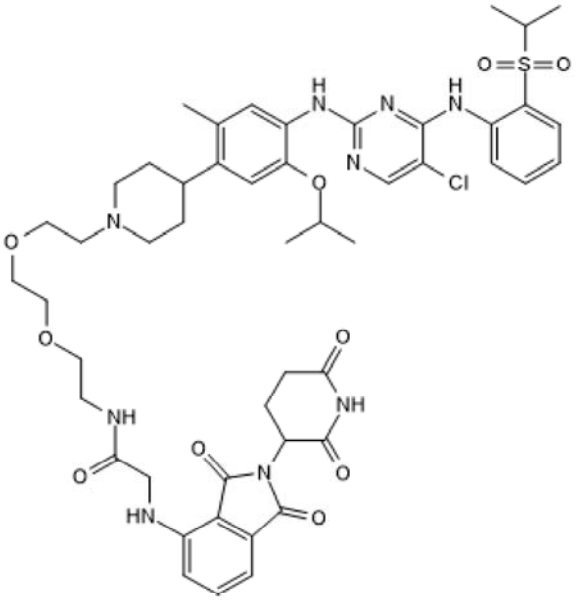
Batch Molecular Formula: $C_{49}H_{60}ClN_9O_{10}S.¾H_2O$

Batch Molecular Weight: 1016.08

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



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. 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

References:

Powell *et al* (2019) Chemically induced degradation of anaplastic lymphoma kinase (ALK). J.Med.Chem. ***61*** 4249. PMID: 29660984.

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