Print Date: Aug 23rd 2022

Certificate of Analysis

www.tocris.com

Product Name: **THAL SNS 032** **Catalog No.: 6532** **Batch No.: 2**

CAS Number: 2139287-33-3

IUPAC Name: *N*-(5-(((5-(*tert*-Butyl)oxazol-2-yl)methyl)thio)thiazol-2-yl)-1-(14-((2-(2,6-dioxopiperidin-3-yl)-1,3-dioxoisoindolin-4-yl) amino)-2-oxo-6,9,12-trioxa-3-azatetradecyl)piperidine-4-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{40}H_{52}N_8O_{10}S_2.H_2O$

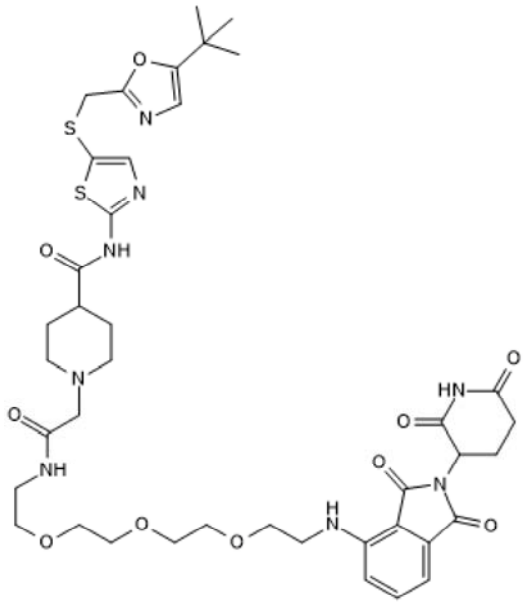
Batch Molecular Weight: 887.04

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.9% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.16	6.14	12.63
Found	53.85	6	12.46

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Description:

THAL SNS 032 is a degrader (PROTAC®) comprising the cyclin-dependent kinase inhibitor SNS 032 (Cat. No. 4075) conjugated to the cereblon E3 ligase ligand, thalidomide (Cat. No. 0652). Potent, selective and cereblon-dependent degrader of Cdk9 (EC_{50} = 4 nM). Displays >15-fold selectivity for Cdk9 over other CDKs (EC_{50} values are 62, 171 and 398 nM for Cdk2, Cdk1 and Cdk7, respectively). Induces complete degradation of Cdk9 at 250 nM in MOLT4 cells. Inhibits proliferation of leukemia cell lines. 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:

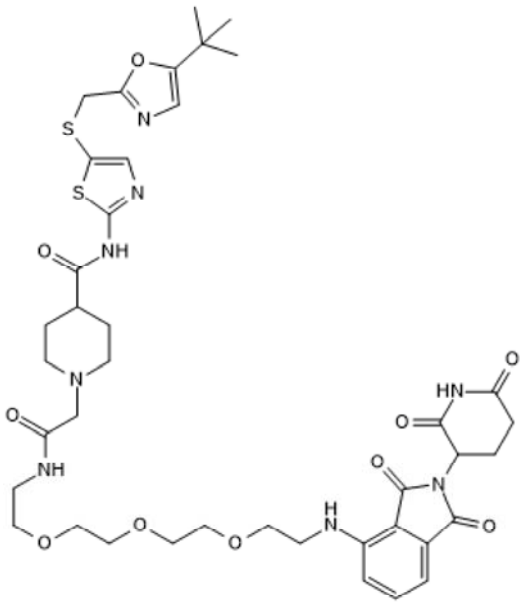
Batch Molecular Formula: $C_{40}H_{52}N_8O_{10}S_2.H_2O$

Batch Molecular Weight: 887.04

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. 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:

Olson *et al* (2018) Pharmacological perturbation of CDK9 using selective CDK9 inhibition or degradation. Nat.Chem.Biol. ***14*** 163. PMID: 29251720.