

**Product Name:** THAL SNS 032

**Catalog No.:** 6532

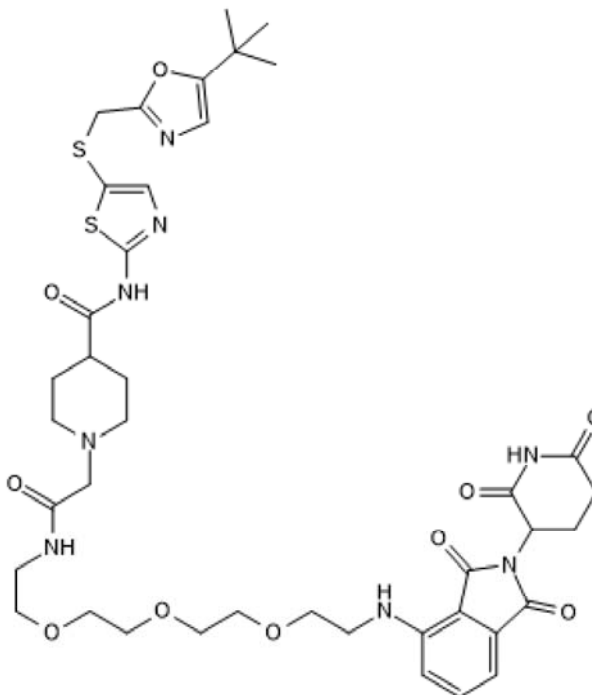
**Batch No.:** 1

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-dioxoisindolin-4-yl)amino)-2-oxo-6,9,12-trioxa-3-azatetradecyl)piperidine-4-carboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>40</sub> H <sub>52</sub> N <sub>8</sub> O <sub>10</sub> S <sub>2</sub> ·½H <sub>2</sub> O
<b>Batch Molecular Weight:</b>	878.03
<b>Physical Appearance:</b>	Yellow solid
<b>Solubility:</b>	DMSO to 100 mM ethanol to 20 mM with gentle warming
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>TLC:</b>	R <sub>f</sub> = 0.34 (Dichloromethane:Methanol [9:1])
<b>HPLC:</b>	Shows 99.2% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	

	Carbon	Hydrogen	Nitrogen
Theoretical	54.72	6.08	12.76
Found	54.69	6.07	12.62

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

**Product Name:** THAL SNS 032

**Catalog No.:** 6532

**Batch No.:** 1

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-dioxoisindolin-4-yl)amino)-2-oxo-6,9,12-trioxa-3-azatetradecyl)piperidine-4-carboxamide

**Description:**

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<sub>50</sub> = 4 nM). Displays >15-fold selectivity for CDK9 over other CDKs (EC<sub>50</sub> 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.

**Physical and Chemical Properties:**

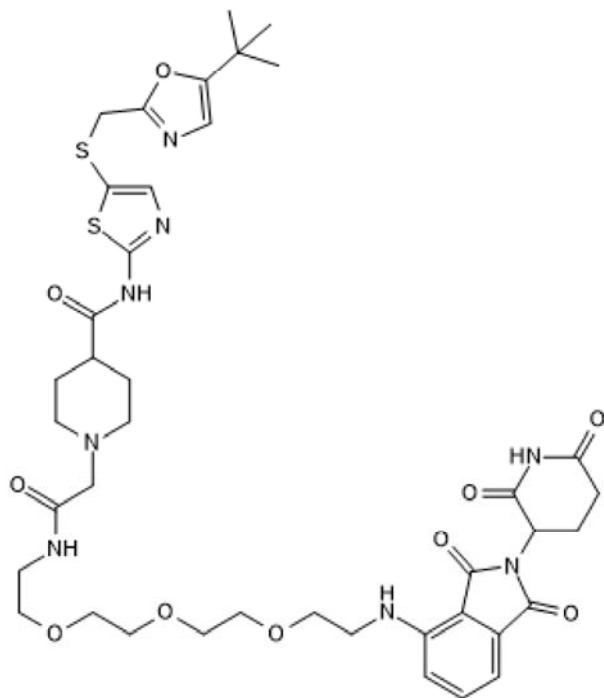
Batch Molecular Formula: C<sub>40</sub>H<sub>52</sub>N<sub>8</sub>O<sub>10</sub>S<sub>2</sub>·½H<sub>2</sub>O

Batch Molecular Weight: 878.03

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 20 mM with gentle warming

**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.

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