

Product Name: SIS17

Catalog No.: 7969

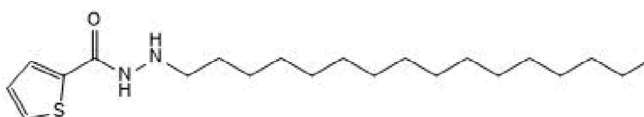
Batch No.: 1

CAS Number: 2374313-54-7

IUPAC Name: N'-Hexadecylthiophene-2-carbohydrazide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C <sub>21</sub> H <sub>38</sub> N <sub>2</sub> OS
Batch Molecular Weight:	366.61
Physical Appearance:	White solid
Solubility:	DMSO to 10 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



## 2. ANALYTICAL DATA

HPLC:	Shows 99.5% purity
<sup>1</sup> H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

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

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**Catalog No.:** 7969

**1**

CAS Number: 2374313-54-7

IUPAC Name: N'-Hexadecylthiophene-2-carbohydrazide

**Description:**

SIS17 is a selective HDAC11 inhibitor ( $IC_{50} = 0.83 \mu M$ ). Inhibits demyristoylation of serine hydroxymethyl transferase 2 with no activity at other HDAC subtypes. Increases cytotoxicity to K562 cells in combination with Oxaliplatin (Cat. No. 2623); improves survival of Oxaliplatin-treated 769P cells. Cell permeable

**Physical and Chemical Properties:**

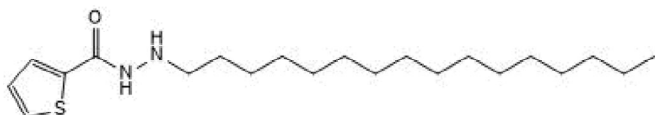
Batch Molecular Formula:  $C_{21}H_{38}N_2OS$

Batch Molecular Weight: 366.61

Physical Appearance: White solid

**Minimum Purity:**  $\geq 95\%$

**Batch Molecular Structure:**



**Storage:** Store at  $-20^{\circ}C$

**Solubility & Usage Info:**

DMSO to 10 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  $45-60^{\circ}C$  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  $-20^{\circ}C$  or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

Li *et al* (2022) A pan-cancer analysis identifies HDAC11 as an immunological and prognostic biomarker. *FASEB J.* **36** e22326. PMID: 35657209.

Son *et al* (2019) Activity-guided design of HDAC11-specific inhibitors. *ACS Chem.Biol.* **14** 1393. PMID: 31264832.

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