

**Product Name:** NDT 30805

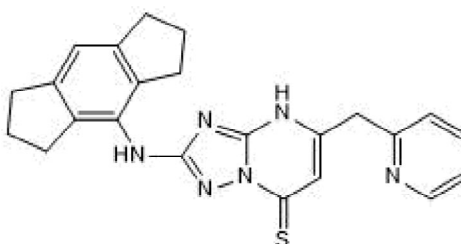
**Catalog No.:** 7808

**Batch No.:** 1

**IUPAC Name:** 2-((1,2,3,5,6,7-Hexahydro-s-indacen-4-yl)amino)-5-(pyridin-2-ylmethyl)-[1,2,4]triazolo[1,5-a]pyrimidine-7(4H)-thione

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>23</sub> H <sub>22</sub> N <sub>6</sub> S
<b>Batch Molecular Weight:</b>	414.53
<b>Physical Appearance:</b>	Off White solid
<b>Solubility:</b>	DMSO to 100 mM
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 96.9% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure

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

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**Description:**

NDT 30805 is a potent NLRP3 inflammasome inhibitor. Inhibits IL-1 $\beta$  release in peripheral blood mononuclear cell assay, ASC speck assay and in whole blood (IC<sub>50</sub> values are 13 nM, 34 nM and 1500 nM). Inhibits nigericin (Cat.No. 4312) and ATP-induced IL-1 $\beta$  release. Soluble and uncharged at physiological pH.

**Physical and Chemical Properties:**

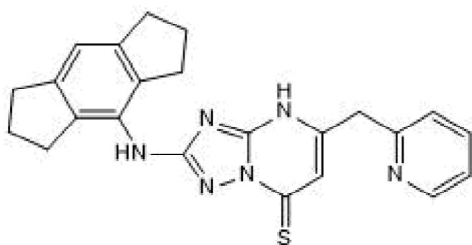
Batch Molecular Formula: C<sub>23</sub>H<sub>22</sub>N<sub>6</sub>S

Batch Molecular Weight: 414.53

Physical Appearance: Off White solid

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

**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.

**References:**

**Harrison et al** (2022) Discovery and optimization of triazolopyrimidinone derivatives as selective NLRP3 inflammasome inhibitors. ACS Med.Chem.Lett. **13** 1321. PMID: 35978696.

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