

Product Name: TH 1760

Catalog No.: 7422

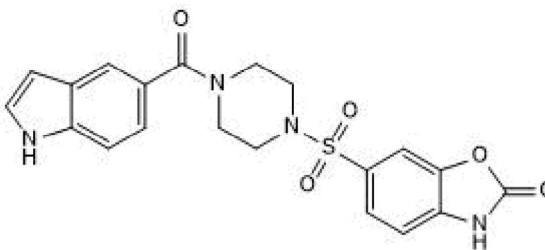
Batch No.: 1

CAS Number: 2567914-01-4

IUPAC Name: 6-[[4-(1*H*-Indol-5-ylcarbonyl)-1-piperazinyl]sulfonyl]-2(3*H*)-benzoxazolone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₀ H ₁₈ N ₄ O ₅ S
Batch Molecular Weight:	426.45
Physical Appearance:	White solid
Solubility:	DMSO to 4 mg/ml with gentle warming
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.0% purity
¹ 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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IUPAC Name: 6-[[4-(1*H*-Indol-5-ylcarbonyl)-1-piperazinyl]sulfonyl]-2(3*H*)-benzoxazolone

Description:

TH 1760 is a potent and selective NUDT15 (nudix hydrolase 15) inhibitor (IC₅₀ = 29 nM). Displays selectivity for NUDT15 when assays at 100 μM against other Nudix enzymes (MTH1, NUDT2, 5, 9, 12, 14, 18, 22) and pyrophosphatases or at 10 μM when assays with a Eurofins Cerep Safety Screen44 panel. In vitro, TH 1760 treatment sensitized cancer cell lines (NB4 and HL-60) to thiopurine.

Physical and Chemical Properties:

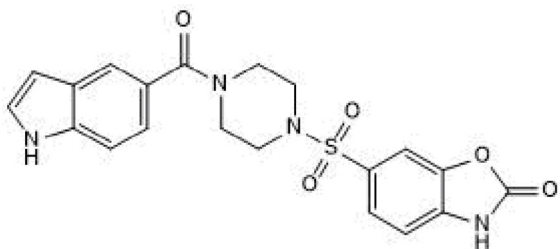
Batch Molecular Formula: C₂₀H₁₈N₄O₅S

Batch Molecular Weight: 426.45

Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 4 mg/ml 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. *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:

Zhang *et al* (2020) Development of a chemical probe against NUDT15. *Nat.Chem.Biol.* **16** 1120. PMID: 32690945.

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