

Product Name: CIA 1

Catalog No.: 7494

Batch No.: 1

CAS Number: 1049691-47-5

IUPAC Name: *N*-[2-(3,4-Dimethoxyphenyl)ethyl]-6-methylthieno[2,3-*d*]pyrimidin-4-amine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₉N₃O₂S.HCl.

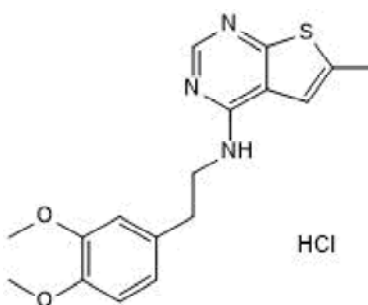
Batch Molecular Weight: 365.88

Physical Appearance: White solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	55.81	5.51	11.49
Found	55.75	5.56	11.45

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

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Description:

CIA 1 is an inhibitor of the nuclear receptor COUP-TFII (IC₅₀ ranged from 1.2 μM to 7.6 μM, in prostate cancer cell lines). In vitro, CIA 1 inhibits growth of multiple prostate cancer cell lines and suppresses COUP-TFII activity to regulate its target genes. In vivo, CIA 1 reduces tumor growth in prostate cancer xenograft mouse models.

Physical and Chemical Properties:

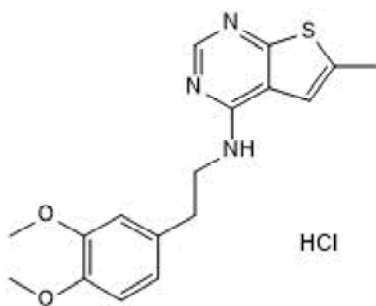
Batch Molecular Formula: C₁₇H₁₉N₃O₂S.HCl.

Batch Molecular Weight: 365.88

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 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.

References:

Wang et al (2020) Small-molecule inhibitor targeting orphan nuclear receptor COUP-TFII for prostate cancer treatment. *Sci.Adv.* **6** eaaz8031. PMID: 32494682.

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info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

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Europe Middle East Africa

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Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956