

Product Name: LNT 1

Catalog No.: 6510

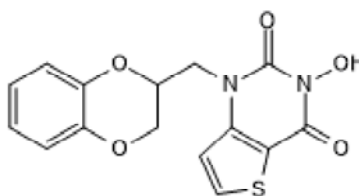
Batch No.: 1

CAS Number: 824983-91-7

IUPAC Name: 1-[(2,3-Dihydro-1,4-benzodioxin-2-yl)methyl]-3-hydroxythieno[3,2-*d*]pyrimidine-2,4(1*H*,3*H*)-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₂N₂O₅S
Batch Molecular Weight: 332.33
Physical Appearance: Beige solid
Solubility: DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.21	3.64	8.43
Found	54.24	3.62	8.29

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

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Description:

Potent flap endonuclease 1 (FEN1) inhibitor ($IC_{50} = 46.4$ nM for hFEN1-336Δ). Cytotoxic to SW620 colorectal cancer cells in vitro; induces DNA damage response.

Physical and Chemical Properties:

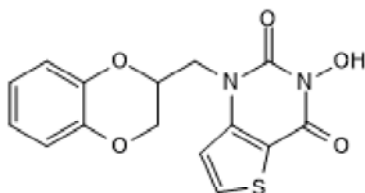
Batch Molecular Formula: C₁₅H₁₂N₂O₅S

Batch Molecular Weight: 332.33

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 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:

Ward et al (2017) Small molecule inhibitors uncover synthetic genetic interactions of human flap endonuclease 1 (FEN1) with DNA damage response genes. PLoS One **12** e0179278. PMID: 28628639.

Exell et al (2016) Cellularly active N-hydroxyurea FEN1 inhibitors block substrate entry to the active site. Nat.Chem.Bio. **12** 815. PMID: 27526030.

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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