

Certificate of Analysis

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Product Name: LTURM 34

Catalog No.: 5834

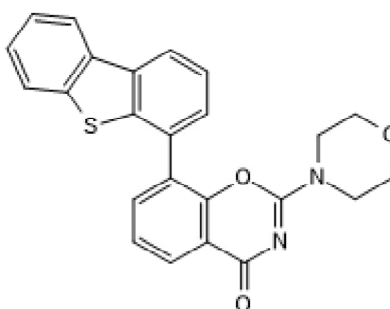
Batch No.: 2

CAS Number: 1879887-96-3

IUPAC Name: 8-(4-Dibenzothiényl)-2-(4-morpholinyl)-4*H*-1,3-benzoxazin-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₁₈N₂O₃S.
Batch Molecular Weight: 414.48
Physical Appearance: Off White solid
Solubility: DMSO to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	69.55	4.38	6.76
Found	69.09	4.36	6.61

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

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Description:

LTURM 34 is a potent DNA-PK inhibitor (IC_{50} = 34 nM). Exhibits 170-fold selectivity for DNA-PK over PI3-K. Attenuates proliferation of a wide range of tumor cell lines in vitro. LTURM 34 also increases CRISPR-Cas9 deletion efficiency.

Physical and Chemical Properties:

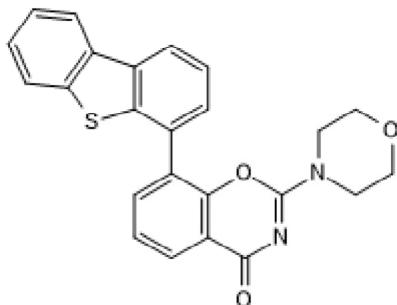
Batch Molecular Formula: $C_{24}H_{18}N_2O_3S$.

Batch Molecular Weight: 414.48

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°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. *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:

Bosch-Guiteras et al (2021) Enhancing CRISPR deletion via pharmacological delay of DNA-PKcs. *Genome Res.* **31** 461. PMID: 33574136.

Morrison et al (2016) Synthesis, structure elucidation, DNA-PK and PI3K and anti-cancer activity of 8- and 6-aryl-substituted-1-3-benzoxazines. *Eur.J.Med.Chem.* **110** 326. PMID: 26854431.

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