

Certificate of Analysis

Print Date: Nov 2nd 2016

www.tocris.com

Catalog No.: 5835 Batch No.: 1

Product Name: LTURM 36
CAS Number: 1879887-94-1

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{22}H_{18}N_2O_3$. Batch Molecular Weight: 358.39

Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.35$ (Ethyl acetate:Petroleum ether [2:3])

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 73.73 5.06 7.81 Found 73.8 4.9 7.77



Product Information

Print Date: Nov 2nd 2016

www.tocris.com

Product Name: LTURM 36 Catalog No.: 5835 Batch No.: 1

CAS Number: 1879887-94-1

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

Description:

PI 3-kinase δ inhibitor (IC $_{50}$ values are 0.64 and 5.0 μ M for PI-3K δ and PI3K β , respectively). Exhibits anticancer activity in a renal cancer cell line.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{22}H_{18}N_2O_3$. Batch Molecular Weight: 358.39 Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at +4°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. 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:

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.