



Certificate of Analysis

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Product Name: SW 033291 Catalog No.: 5759 Batch No.: 1

CAS Number: 459147-39-8

IUPAC Name: 2-(Butylsulfinyl)-4-phenyl-6-(2-thienyl)-thieno[2,3-b]pyridin-3-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{21}H_{20}N_2OS_3$

Batch Molecular Weight: 412.59
Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM ethanol to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 98.8% purity

1H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 61.13 4.89 6.79 Found 61.26 4.86 6.64



Product Information

Print Date: Feb 26th 2016

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IUPAC Name: 2-(Butylsulfinyl)-4-phenyl-6-(2-thienyl)-thieno[2,3-b]pyridin-3-amine

Description:

High affinity 15-hydroxyprostaglandin dehydrogenase (15-PGDH) inhibitor ($K_i = 0.1$ nM). Increases PGE $_2$ levels in A549 cells in vitro, as well as in bone marrow, colon, lung and liver in mice. Promotes hematopoiesis, recovery from DSS-induced colitis, and hepatocyte proliferation after partial hepatectomy in mice.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₁H₂₀N₂OS₃ Batch Molecular Weight: 412.59 Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM ethanol 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:

Zhang *et al* (2015) Inhibition of the prostaglandin-degrading enzyme 15-PGDH potentiates tissue regeneration. Science **345** aaa2340. PMID: 26068857.