

Certificate of Analysis

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Product Name: Tilfrinib

Catalog No.: 5579

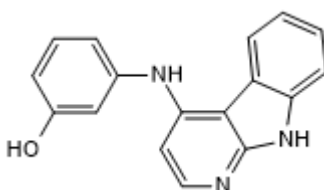
Batch No.: 1

CAS Number: 1600515-49-8

IUPAC Name: 3-(9*H*-Pyrido[2,3-*b*]indol-4-ylamino)phenol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₃N₃O.H₂O
Batch Molecular Weight: 293.32
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.29 (Chloroform:Methanol [9:1])
HPLC: Shows 99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 69.61 | 5.15 | 14.33 |
| Found | 69.71 | 5.15 | 14.18 |

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

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IUPAC Name: 3-(9*H*-Pyrido[2,3-*b*]indol-4-ylamino)phenol

Description:

Potent and selective breast tumor kinase (Brk, also known as tyrosine-protein kinase 6, PTK6) inhibitor (IC₅₀ = 3.15 nM). Exhibits >1000-fold selectivity for Brk over a panel of other kinases. Inhibits proliferation of breast cancer cells in vitro.

Physical and Chemical Properties:

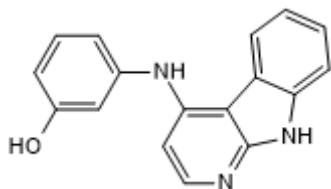
Batch Molecular Formula: C₁₇H₁₃N₃O.H₂O

Batch Molecular Weight: 293.32

Physical Appearance: Beige 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.

Licensing Information:

Sold under license from Martin-Luther-Universität-Halle-Wittenburg

References:

Mahmoud et al (2014) Discovery of 4-anilino α -carbolines as novel Brk inhibitors. *Bioorg.Med.Chem.Lett.* **24** 1948. PMID: 24650640.

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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