

## Certificate of Analysis

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**Product Name:** TWS 119

**Catalog No.:** 3835

**Batch No.:** 2

CAS Number: 1507095-58-0

IUPAC Name: 3-[[6-(3-Aminophenyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yl]oxyphenol ditrifluoroacetate

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{18}H_{14}N_4O_2 \cdot 2CF_3CO_2H$ .

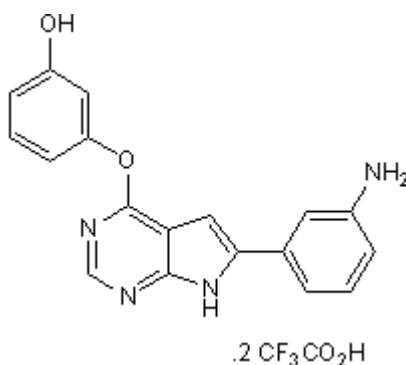
**Batch Molecular Weight:** 546.38

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM  
ethanol to 100 mM

**Storage:** Desiccate at +4°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:**  $R_f = 0.5$  (Dichloromethane:Methanol:2M NH<sub>3</sub> [100:8])

**HPLC:** Shows 98.7% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

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**Description:**

Inhibitor of glycogen synthase kinase-3 $\beta$  (IC<sub>50</sub> = 30 nM). Induces neuronal differentiation in pluripotent murine embryonal carcinoma cells and embryonic stem cells (ESCs).

**Physical and Chemical Properties:**

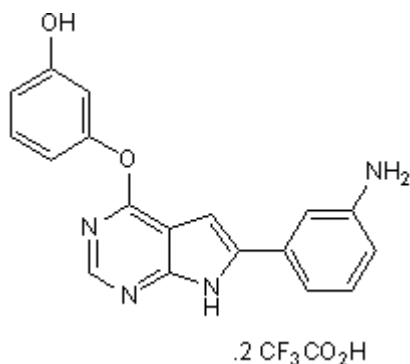
Batch Molecular Formula: C<sub>18</sub>H<sub>14</sub>N<sub>4</sub>O<sub>2</sub>.2CF<sub>3</sub>CO<sub>2</sub>H.

Batch Molecular Weight: 546.38

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol 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:**

**Ding et al** (2003) Synthetic small molecules that control stem cell fate. *Proc.Natl.Acad.Sci.* **100** 7632.

**Kordes et al** (2008) Canonical wnt signaling maintains the quiescent stage of hepatic stellate cells. *Biochem.Biophys.Res.Comm.* **367** 116.

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