TOCRIS
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Print Date: Oct 12th 2022

Certificate of Analysis

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Product Name: **OSU 03012** **Catalog No.: 5682** **Batch No.: 1**

CAS Number: 742112-33-0

IUPAC Name: 2-Amino-*N*-[4-[5-(2-phenanthrenyl)-3-(trifluoromethyl)-1*H*-pyrazol-1-yl]phenyl]acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{26}H_{19}F_3N_4O$

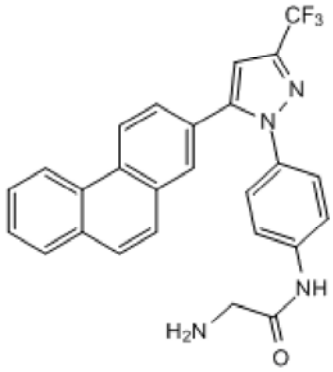
Batch Molecular Weight: 460.45

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 20 mM with gentle warming

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.82	4.16	12.17
Found	67.86	4.19	12.11

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Product Information

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Description:

OSU 03012 is a PDPK1 (PDK1) inhibitor; inhibits Akt signaling. Induces apoptosis of PC-3 and medulloblastoma cells, and inhibits growth of a number of tumor cell lines. Sensitizes radiotherapy-induced cell death and enhances cytotoxic effects of chemotherapeutic agents in vitro. Attenuates tumor growth of medulloblastoma xenografts in mice.

Physical and Chemical Properties:

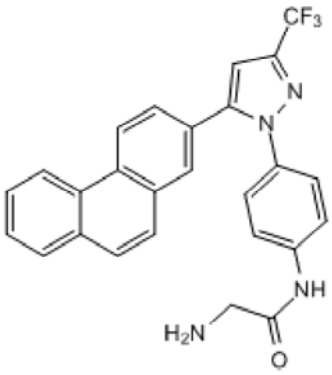
Batch Molecular Formula: $C_{26}H_{19}F_3N_4O$

Batch Molecular Weight: 460.45

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 20 mM with gentle warming

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:

Baryawno *et al* (2010) Small-molecule inhibitors of phosphatidylinositol 3-kinase/Akt signaling inhibit Wnt/β-catenin pathway cross-talk and suppress medulloblastoma growth. Cancer Res. ***70*** 266. PMID: 20028853.

Yacoub *et al* (2006) OSU-03012 promotes caspase-independent but PERK-, cathepsin B-, BID-, and AIF-dependent killing of transformed cells. Mol.Pharmacol. ***70*** 589. PMID: 16622074.

Zhu *et al* (2004) From the cyclooxygenase-2 inhibitor cele. to a novel class of 3-phosphoinositide-dependent protein kinase-1 inhibitors. Cancer Res. ***64*** 4309. PMID: 15205346.