TOCRIS bioscience

Print Date: Apr 28th 2015

Certificate of Analysis

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Product Name: **GTP 14564** **Catalog No.: 2086** **Batch No.: 1**

CAS Number: 34823-86-4

IUPAC Name: 3-Phenyl-1*H*-benzofuro[3,2-*c*]pyrazole

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{10}N_2O.¼H_2O$

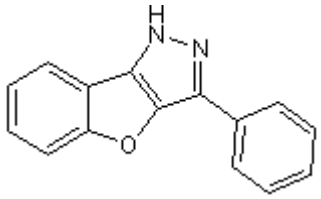
Batch Molecular Weight: 238.76

Physical Appearance: Light brown solid

Solubility: DMSO to 100 mM
ethanol to 25 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Chloroform:Methanol [95:5])

Melting Point: Between 221 - 227°C

HPLC: Shows >99.3% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	75.46	4.43	11.73
Found	75.31	4.27	11.81

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Description:

Potent, selective inhibitor of class III receptor tyrosine kinases (IC_{50} values are 0.3 µM for c-Fms, c-Kit, FLT3 and ITD-FLT3 and 1 µM for PDGFRβ). Displays no activity against ERK1, ERK2, EGFR, MEK1, HER2, Src, Abl, PKC, PKA and Akt (IC_{50} > 10 µM). Inhibits FL-dependent proliferation in BaF/ITD-FLT3 cells more potently than BaF/wt-FLT3 cells; anti-leukemic.

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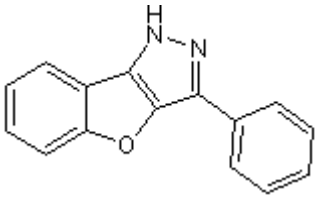

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 25 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:

Murata *et al* (2003) Selective cytotoxic mechanism of GTP-14564, a novel tyrosine kinase inhibitor in leukemia cells expressing a constitutively active Fms-like tyrosine kinase 3 (FLT3). J.Biol.Chem. ***278*** 32892. PMID: 12815052.

Yao *et al* (2005) Human leukemias with mutated FLT3 kinase are synergistically sensitive to FLT3 and Hsp90 inhibitors: the key role of the STAT5 signal transduction pathway. Leukemia ***19*** 1605. PMID: 16034464.