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Certificate of Analysis

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Print Date: Jan 15th 2016

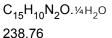
Product Name: GTP 14564

CAS Number: 34823-86-4 IUPAC Name: 3-Phenyl-1*H*-benzofuro[3,2-*c*]pyrazole

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Storage: Batch Molecular Structure:



Light brown solid DMSO to 100 mM ethanol to 25 mM Store at +4°C

2. ANALYTICAL DATA

TLC: Melting Point: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: R_f = 0.2 (Chloroform:Methanol [95:5]) Between 221 - 227°C Shows >99.3% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen

	ourboil Hydrogen Millogen			
Theoretical	75.46	4.43	11.73	
Found	75.31	4.27	11.81	

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

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Catalog No.: 2086 Batch No.: 1

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Product Name: GTP 14564

Catalog No.: 2086

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CAS Number: 34823-86-4 IUPAC Name: 3-Phenyl-1*H*-benzofuro[3,2-*c*]pyrazole

Description:

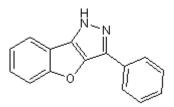
Potent, selective inhibitor of class III receptor tyrosine kinases (IC₅₀ values are 0.3 μ M for c-Fms, c-Kit, FLT3 and ITD-FLT3 and 1 μ M for PDGFR β). Displays no activity against ERK1, ERK2, EGFR, MEK1, HER2, Src, Abl, PKC, PKA and Akt (IC₅₀ > 10 μ M). Inhibits FL-dependent proliferation in BaF/ITD-FLT3 cells more potently than BaF/wt-FLT3 cells; anti-leukemic.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₅H₁₀N₂O.¼H₂O Batch Molecular Weight: 238.76 Physical Appearance: Light brown solid

Minimum Purity: >99%

Batch Molecular Structure:



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.

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