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IUPAC Name:

Storage:

Certificate of Analysis

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Catalog No.: 2977

Print Date: Feb 26th 2024

Batch No.: 2

Product Name: GW 843682X

CAS Number: 660868-91-7

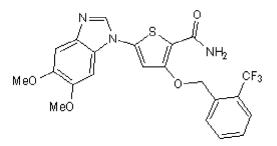
5-(5,6-Dimethoxy-1H-benzimidazol-1-yl)-3-[[2-(trifluoromethyl)phenyl]methoxy]-2-thiophenecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

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

Batch Molecular Structure:

C₂₂H₁₈F₃N₃O₄S.½H₂O 481.96 Pale yellow solid DMSO to 75 mM ethanol to 5 mM Desiccate at +4°C



2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

R_f = 0.33 (Dichloromethane:Methanol [9:1]) Shows 98.4% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 54.83 3.87 8.72

3.51

8.32

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

54.75

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Found

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2

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Product Name: GW 843682X

CAS Number: 660868-91-7

IUPAC Name:

5-(5,6-Dimethoxy-1H-benzimidazol-1-yl)-3-[[2-(trifluoromethyl)phenyl]methoxy]-2-thiophenecarboxamide

Description:

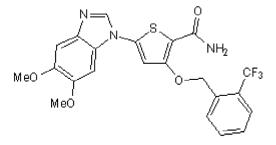
GW 843682X is a selective inhibitor of polo-like kinase 1 (PLK1) and polo-like kinase 3 (PLK3) (IC₅₀ values are 2.2 and 9.1 nM respectively). Displays > 100-fold selectivity over ~30 other kinases tested including cdk1 and cdk2. Inhibits proliferation of most tumor cells in vitro and is selective over normal diploid fibroblasts.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₂H₁₈F₃N₃O₄S.¹/₄H₂O Batch Molecular Weight: 481.96 Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 75 mM ethanol to 5 mM

When purchased as a 1mg unit, this product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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 for research purposes under agreement from GlaxoSmithKline

References:

Lansing et al (2007) In vitro biological activity of a novel small-molecule inhibitor of polo-like kinase 1. Mol.Cancer Ther. 6 450. PMID: 17267659.

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