Certificate of Analysis

www.tocris.com

Print Date: Jan 12th 2023

BAY 876 Product Name:

CAS Number: 1799753-84-6

N4-[1-[(4-Cyanophenyl)methyl]-5-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]-7-fluoro-2,4-quinolinedicarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight:

Physical Appearance:

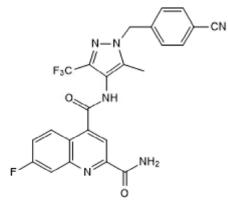
Solubility:

Storage:

IUPAC Name:

Batch Molecular Structure:

 $C_{24}H_{16}F_4N_6O_2$ 496.42 Off-white solid DMSO to 100 mM Store at +4°C



2. ANALYTICAL DATA

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

R_f = 0.48 (Dichloromethane:Methanol [9:1]) Shows 99.3% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 58.07 3.25 16.93 Found 57.76 3.37 17.08

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

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Catalog No.: 6199 Batch No.: 1

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Product Name: BAY 876

CAS Number: 1799753-84-6

N4-[1-[(4-Cyanophenyl)methyl]-5-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]-7-fluoro-2,4-quinolinedicarboxamide

Description:

IUPAC Name:

BAY 876 is a potent and selective GLUT1 inhibitor ($IC_{50} = 2 \text{ nM}$) that displays selectivity for GLUT1 over GLUT2/3/4 (IC_{50} values are 10.8, 1.67 and 0.29 µM, respectively). BAY 876 induces cell death in hypoxic conditions in vitro and inhibits glucose uptake by Hela-MaTu cells. In ovarian cancer, BAY 876 reduces glycolysis rates and ATP production and inhibits proliferation in vitro and in vivo. This compound is cell permeable and orally bioavailable.

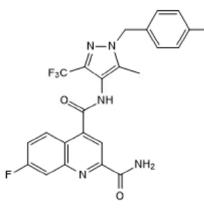
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Physical and Chemical Properties:

Batch Molecular Formula: C₂₄H₁₆F₄N₆O₂ Batch Molecular Weight: 496.42 Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info: DMSO 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).

Catalog No.: 6199

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:

Ma et al (2018) Ovarian cancer relies on glucose transporter 1 to fuel glycolysis and growth: anti-tumor activity of BAY-876. Cancers (Basel) 11 33. PMID: 30602670.

Siebeneicher et al (2016) Identification and optimization of the first highly selective GLUT1 inhibitor BAY-876. ChemMedChem. 11 2261. PMID: 27552707.

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