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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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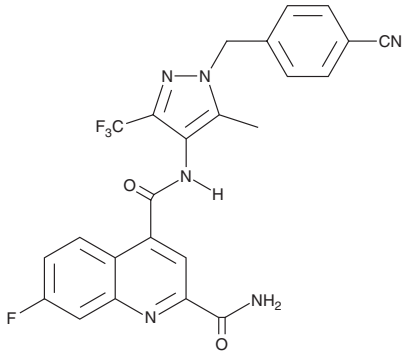
PRODUCT INFORMATION

BAY-876

Item No. 19961



CAS Registry No.:	1799753-84-6
Formal Name:	N^4-[1-[(4-cyanophenyl)methyl]-5-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]-7-fluoro-2,4-quinolinedicarboxamide
MF:	$C_{24}H_{16}F_4N_6O_2$
FW:	496.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 234 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

BAY-876 is supplied as a crystalline solid. A stock solution may be made by dissolving the BAY-876 in the solvent of choice. BAY-876 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of BAY-876 in these solvents is approximately 30 mg/ml.

BAY-876 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BAY-876 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. BAY-876 has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

BAY-876 is a potent and selective inhibitor of glucose transporter 1 (Glut1) with IC_{50} values of 2, 10,800, 1,670, and 290 nM for Glut1, Glut2, Glut3, and Glut4, respectively, in CHO cells expressing human recombinant receptors.[1] It shows low metabolic clearance and has high permeability *in vitro*. *In vivo*, BAY-876 displays low plasma clearance and high oral bioavailability in rats and dogs.

Reference

1. Siebeneicher, H., Cleve, A., Rehwinkel, H., *et al.* Identification and optimization of the first highly selective GLUT1 inhibitor BAY-876. *ChemMedChem* **11(20)**, 2261-2271 (2016).

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