

Product Name: BAY 826

Catalog No.: 6579

Batch No.: 1

CAS Number: 1448316-08-2

IUPAC Name: [3-Cyano-5-[[[2,4-dimethyl-5-[6-(3-pyridinyl)-1H-imidazo[1,2-b]pyrazol-1-yl]phenyl]amino]carbonyl]phenyl]pentafluorosulfur

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₁₉F₅N₆OS.¼H₂O

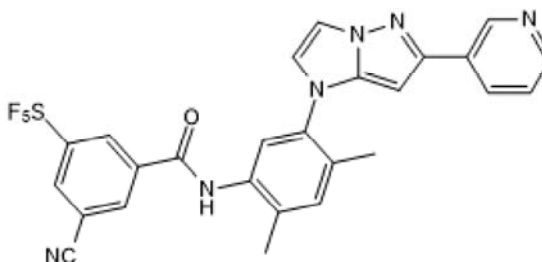
Batch Molecular Weight: 563.03

Physical Appearance: Pale yellow solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Dichloromethane:Methanol [9:1])

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	55.47	3.49	14.93
Found	55.24	3.4	14.7

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

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IUPAC Name: [3-Cyano-5-[[[2,4-dimethyl-5-[6-(3-pyridinyl)-1H-imidazo[1,2-b]pyrazol-1-yl]]phenyl]amino]carbonyl]phenyl] pentafluorosulfur

Description:

BAY 826 is a potent Tie 2 inhibitor (IC₅₀ = 1.3 nM for autophosphorylation of Tie2 in HUVECs), which is selective for Tie2 over other angiogenic receptor tyrosine kinases, including VEGFR, FGFR and PDGFR. BAY 826 displays *in vivo* efficacy in some murine glioma models. Tie2 is also known as angiotensin-1 receptor and TEK tyrosine kinase.

Physical and Chemical Properties:

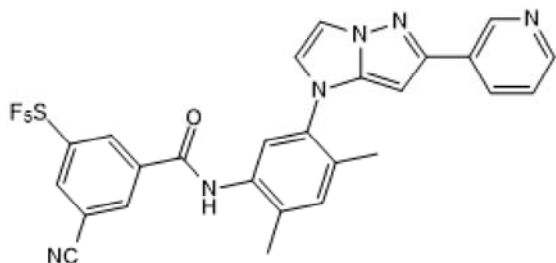
Batch Molecular Formula: C₂₆H₁₉F₅N₆OS.¼H₂O

Batch Molecular Weight: 563.03

Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Schneider et al (2017) Novel TIE-2 inhibitor BAY-826 displays *in vivo* efficacy in experimental syngeneic murine glioma models. *J.Neurochem.* **140** 170. PMID: 27787897.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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).

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.

Licensing Information:

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the BAY-826 probe summary on the SGC website.

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