

Certificate of Analysis

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Product Name: BBI 2779

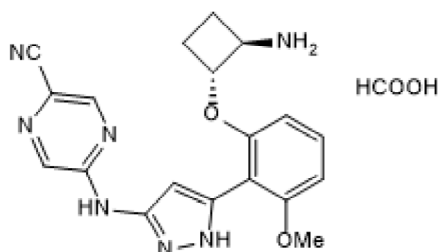
Catalog No.: 8955

Batch No.: 1

IUPAC Name: 5-[[5-[2-[[[(1*R*,2*R*)-2-Aminocyclobutyl]oxy]-6-methoxyphenyl]-1*H*-pyrazol-3-yl]amino]-2-pyrazinecarbonitrile formate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Weight: 423.43
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.4% purity
Chiral HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	54.42	5.25	22.21
Found	54.26	4.96	21.93

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

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Description:

BBI 2779 is a potent and selective checkpoint kinase 1 (CHK1) inhibitor (IC_{50} = 0.5 nM). It displays 160-fold selectivity over CHK2. BBI 2779 preferentially kills ecDNA-containing tumour cells (IC_{50} = 3 nM). In a gastric cancer model containing FGFR2 amplified on ecDNA, BBI 2779 suppresses tumour growth and prevents ecDNA-mediated acquired resistance to the pan-FGFR inhibitor infigratinib, resulting in potent and sustained tumour regression in mice. BBI 2779 is orally bioavailable.

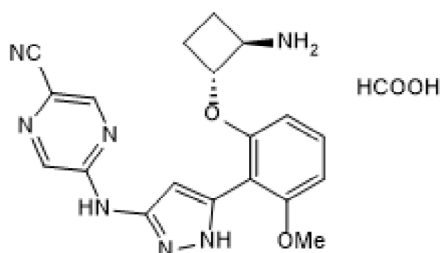
Physical and Chemical Properties:

Batch Molecular Weight: 423.43

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°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).

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 with kind permission of Boundless Bio

References:

Tang et al (2024) Enhancing transcription-replication conflict targets ecDNA-positive cancers. *Nature* **635** 210. PMID: 39506153.

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