

Product Name: (S)-Crizotinib

Catalog No.: 6025

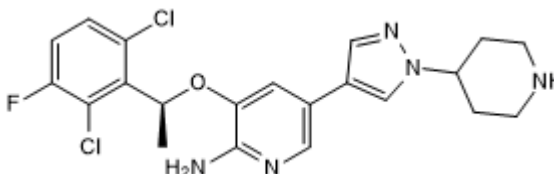
Batch No.: 1

CAS Number: 1374356-45-2

IUPAC Name: 3-[(1S)-1-(2,6-Dichloro-3-fluorophenyl)ethoxy]-5-[1-(4-piperidinyl)-1H-pyrazol-4-yl]-2-pyridinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₁ H ₂₂ Cl ₂ FN ₅ O.¼H ₂ O
Batch Molecular Weight:	454.84
Physical Appearance:	Off White solid
Solubility:	DMSO to 50 mM 1eq. HCl to 20 mM with gentle warming ethanol to 20 mM
Storage:	Store at RT
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows >98.3% purity
Chiral HPLC:	Shows 100% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

Carbon Hydrogen Nitrogen

Theoretical	55.45	4.99	15.4
Found	55.44	4.84	15.32

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

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Description:

Potent MTH1 inhibitor (IC₅₀ = 72 nM). Induces DNA damage and disrupts nucleotide pool homeostasis in cancer cells. Also attenuates colony formation of KRAS-mutated PANC1 cells in vitro. Suppresses tumor growth ~50% in a colon cancer carcinoma xenograft model.

Physical and Chemical Properties:

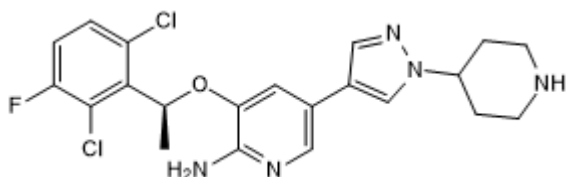
Batch Molecular Formula: C₂₁H₂₂Cl₂FN₅O.¼H₂O

Batch Molecular Weight: 454.84

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 50 mM

1eq. HCl to 20 mM with gentle warming

ethanol to 20 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:

Sold for research purposes under agreement from Pfizer Inc

References:

Huber *et al* (2014) Stereospecific targeting of MTH1 by (S)-crizotinib as an anticancer strategy. *Nature* **508** 222. PMID: 24695225.

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