Catalog # 10-2626

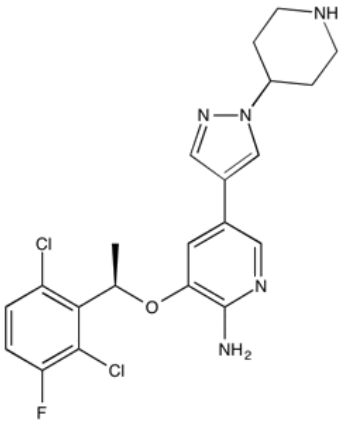
Crizotinib

CAS# 877399-52-5

PF-02341066; PF-1066

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

Lot # X106521



A potent and selective inhibitor of c-MET and ALK, IC_{50}s=8 and 20 nM respectively.[1] Inhibition of cell proliferation was associated with G1-S phase cell cycle arrest and induction of apoptosis in ALK-positive ALCL cells (IC_{50}=30 nM) but not in ALK-negative lymphoma cells.[1] Exhibits cytoreductive antitumor efficacy via antiproliferative and antiangiogenic mechanisms.[2] Clinically useful anticancer agent.[3]

1) Christensen *et al*. (2007), *Cytoreductive antitumor activity of PF-2341066, a novel inhibitor of anaplastic lymphoma kinase and c-Met, in experimental models of anaplastic large-cell lymphoma*; Mol. Cancer Ther., **6** 3314
2) Zou *et al*. (2007), *An orally available small-molecule inhibitor of c-Met, PF-2341066, exhibits cytoreductive antitumor efficacy through antiprofilerative and antiangiogenic mechanisms*; Cancer Res., **67** 4408
3) Bang *et al*. (2010), *Clinical activity of the oral ALK inhibitor PF-02341066 in ALK-positive patients with non-small cell lung cancer (NSCLC)*; J. Clin. Oncol., **28** 3

PHYSICAL DATA

Molecular Weight:	450.34
Molecular Formula:	$C_{21}H_{22}Cl_2FN_5O$
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml with warming) or Ethanol (up to 25 mg/ml with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

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