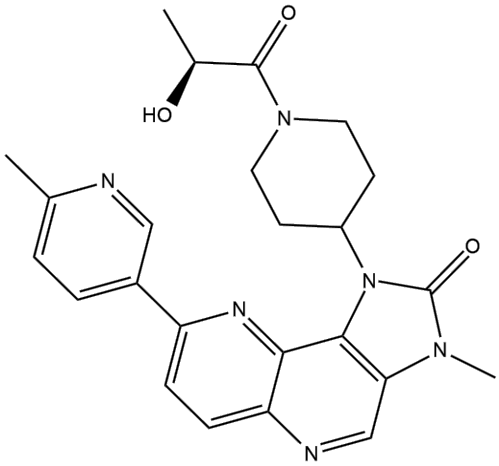
Product Data Sheet

Product Name: PF-04979064
Cat. No.: GC19283

Chemical Properties

Cas. No.	1220699-06-8		
SMILES	O=C(N1C2CCN(C([C@@H](O)C)=O)CC2)N(C)C3=C1C4=NC(C5=CC=C(C)N=C5)=CC=C4N=C3		
Formula	$C_{24}H_{26}N_6O_3$	M.Wt	446.5
Solubility	DMSO : 11 mg/mL (24.64 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

PF-04979064 is a potent and selective PI3K/mTOR dual kinase inhibitor with Kis of 0.13 nM and 1.42 nM for PI3Kα and mTOR, respectively.

PF-04979064 is tested against human class I PI3K isoforms PI3Kα, PI3Kγ, and PI3Kδ, with PI3Kα Ki of 0.13 nM, PI3Kγ Ki of 0.111 nM, and PI3Kδ Ki of 0.122 nM[1].

PF-04979064 is progressed to rat in vivo PK studies and exhibits robust PK profile: Vdss=5.23 L/kg,

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Cl=19.3 mL/min/kg, T1/2=1.85 h, and F%=61%[1].

References:

[1]. Cheng H et al. Discovery of the Highly Potent PI3K/mTOR Dual Inhibitor PF-04979064 through Structure-Based Drug Design. ACS Med Chem Lett, 2012 Nov 7, 4(1):91-7.

Caution: Product has not been fully validated for medical applications. For research use only.

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