Product Data Sheet

Product Name: PIM447
Cat. No.: GC19398

Chemical Properties

Cas. No.	1210608-43-7		
SMILES	O=C(C1=CC=C(F)C(C2=C(F)C=CC=C2F)=N1)NC3=C([C@@H]4C[C@H](C)C[C@H](N)C4)C=CN=C3		
Formula	$C_{24}H_{23}F_3N_4O$	M.Wt	440.46
Solubility	DMSO : 33.33 mg/mL (64.92 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	PIM447		

Background

PIM447 is novel pan-PIM kinase inhibitor, including Moloney Murine Leukemia (PIM) 1, 2, and 3 Kinase.target: pan-PIM inhibitor [2] [3]In vitro: PIM447 is cytotoxic for myeloma cells due to cell cycle disruption and induction of apoptosis mediated by a decrease in phospho-Bad (Ser112) and c-Myc levels and the inhibition of mTORC1 pathway. PIM447 also inhibits in vitro osteoclast formation and resorption, downregulates key molecules involved in these processes and partially disrupts the F-actin ring, while increasing osteoblast activity and mineralization.[1]In vivo: PIM447 significantly reduces the tumor burden and preventes tumor-associated bone loss in a disseminated murine model of human myeloma.[1]

References:
[1]. Paíno T et al. The novel pan-PIM kinase inhibitor, PIM447, displays dual anti-myeloma and bone protective effects, and potently synergizes with current standards of care. Clin Cancer Res. 2016 Jul 20.
[2]. Burger MT et al. Identification of N-(4-((1R,3S,5S)-3-Amino-5-methylcyclohexyl)pyridin-3-yl)-6-(2,6-difluorophenyl)-5-fluoropicolinamide (PIM447), a

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Potent and Selective Proviral Insertion Site of Moloney Murine Leukemia (PIM) 1, 2, and 3 Kinase Inhibitor

[3]. Peters TL et al. Control of translational activation by PIM kinase in activated B-cell diffuse large B-cell lymphoma confers sensitivity to inhibition by PIM447. Oncotarget. 2016 Aug 20

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