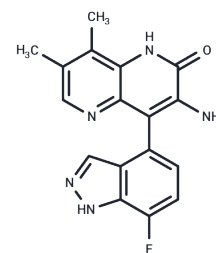


PKMYT1-IN-9

Chemical Properties

CAS No. :	3055031-36-9
Formula:	C17H14FN5O
Molecular Weight:	323.324
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	PKMYT1-IN-9 is a highly selective, orally active inhibitor of PKMYT1 with an IC ₅₀ of 4.4 nM. It exhibits greater selectivity for PKMYT1 compared to WEE1, for which the IC ₅₀ is 32.4 μM. Additionally, PKMYT1-IN-9 demonstrates antitumor activity.
Targets(IC ₅₀)	Wee1
In vitro	PKMYT1-IN-9 (Compound 36) exhibits a significant antiproliferative effect on the HCC1569 cell line (CC ₅₀ : 0.31 μM), but a weaker effect on the KYSE30 cell line (CC ₅₀ : >30 μM). It strongly inhibits the EPHA1 kinase (IC ₅₀ : 10.1 nM), while showing much lower efficacy against six other kinases (ABL1, ABL2, BRAF, CSF1R, LCK, and SRC) with an IC ₅₀ of >60 nM. Additionally, PKMYT1-IN-9 has no reaction with GSH, does not inhibit hERG, and shows a low inhibition rate on CYP enzymes (<50%). It also demonstrates a high clearance rate in human and mouse liver microsomes (77.3 mL/min/kg at 1 mg/kg IV).
In vivo	PKMYT1-IN-9 (Compound 36) administered at 15 mg/kg orally twice daily for 21 days effectively inhibits tumor growth by 53% in female NOD-SCID mice carrying xenografts derived from HCC1569 tumors (CDX model).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0929 mL	15.4646 mL	30.9291 mL
5 mM	0.6186 mL	3.0929 mL	6.1858 mL
10 mM	0.3093 mL	1.5465 mL	3.0929 mL
50 mM	0.0619 mL	0.3093 mL	0.6186 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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