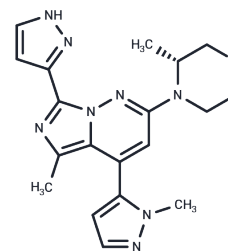


ATR-IN-29

Chemical Properties

CAS No. :	2761193-67-1
Formula:	C ₁₉ H ₂₂ N ₈ O
Molecular Weight:	378.43
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	ATR-IN-29, a potent, orally active inhibitor of ATR kinase, exhibits an IC ₅₀ of 1 nM and demonstrates antiproliferative activity [1].
Targets(IC ₅₀)	ATM/ATR
In vitro	ATR-IN-29 (compound 1) exhibited antiproliferative activity over 4 days, with IC ₅₀ values of 156.70, 38.81, 22.48, 181.60, and 19.02 nM against A549, HCC1806, HCT116, OVCAR-3, and NCI-H460 cell lines, respectively [1].
In vivo	ATR-IN-29 administered at a dose of 10 mg/kg orally once demonstrated favorable pharmacokinetic parameters in CD-1 (ICR) mice, with a half-life (t _{1/2}) of 1.64 hours, a maximum concentration (C _{max}) of 9343 ng/mL, and an area under the curve from time zero to the last measurable concentration (AUC 0-t) of 98507 ng·h/mL, as well as an area under the curve from time zero to infinity (AUC 0-inf) of 98517 ng·h/mL.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6425 mL	13.2125 mL	26.425 mL
5 mM	0.5285 mL	2.6425 mL	5.285 mL
10 mM	0.2642 mL	1.3212 mL	2.6425 mL
50 mM	0.0528 mL	0.2642 mL	0.5285 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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