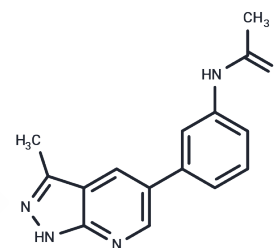


MRT00033659

Chemical Properties

CAS No. : 1401731-54-1
 Formula: C₁₅H₁₄N₄O
 Molecular Weight: 266.3
 Storage: Powder: -20°C for 3 years
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	MRT00033659 is an effective broad-spectrum kinase inhibitor of CK1 (IC ₅₀ =0.9 μM for CK1δ) and CHK1 (IC ₅₀ =0.23 μM). MRT00033659 is a pyrazolo-pyridine analogue. It also induces p53 pathway activation and E2F-1 destabilization.
Targets(IC ₅₀)	Others, Casein Kinase, Chk, MDM-2/p53, Early 2 Factor (E2F)
In vitro	MRT00033659 does not inhibit p38α MAPK. MRT00033659 (1-80 μM; 48 hours) causes substantial cell death from 5 μM. MRT00033659 (0.2-80 μM; 48 hours) induces a robust and sustained stabilisation of p53, MDM2, and p21 proteins, as well as E2F-1 destabilisation from 0.2 μM to 5 μM. MRT00033659 (5-40 μM; 48 hours) is sufficient to obviously decrease cell number of 5 μM.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7552 mL	18.7758 mL	37.5516 mL
5 mM	0.751 mL	3.7552 mL	7.5103 mL
10 mM	0.3755 mL	1.8776 mL	3.7552 mL
50 mM	0.0751 mL	0.3755 mL	0.751 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.

Reference

Huart AS, et al. A Casein kinase 1/Checkpoint kinase 1 pyrazolo-pyridine protein kinase inhibitor as novel activator of the p53 pathway. *Bioorg Med Chem Lett.* 2013 Oct 15;23(20):5578-85.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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