

Product Data Sheet

Mirk-IN-1

Cat. No.: HY-12838 CAS No.: 1386979-55-0 Molecular Formula: $C_{23}H_{17}Cl_2N_5O_4$

Molecular Weight: 498.32
Target: DYRK

Pathway: Protein Tyrosine Kinase/RTK

Storage: Powder -20°C 3 years

4°C 2 years

In solvent -80°C 2 years

-20°C 1 year

SOLVENT & SOLUBILITY

In Vitro

DMSO: 2 mg/mL (4.01 mM; Need ultrasonic)

H₂O: < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.0067 mL	10.0337 mL	20.0674 mL
	5 mM			
	10 mM			

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Mirk-IN-1 is a potent inhibitor of Dyrk1B(Mirk kianse) and Dyrk1A with IC50 of 68±48 nM and 22±8 nM respectively.IC50 value: 68±48/22±8 nM (Dyrk1B/Dyrk1A) [1]Target: Dyrk inhibitorMirk-IN-1 had an EC50 of 1.9 ±0.2 mmol/L on SW620 cells. At a much higher concentration of 10 mmol/L in a kinase assay, Mirk-IN-1 inhibited the activities of DYRK1A, ABL, FLT3, and MARK1 by88%, 64%, 56%, and 73%, respectively [1]. Mirk-IN-1 was able to block tumor cells from undergoing reversible arrest in a quiescent G0 state and enable some cells to exit quiescence [2].

CUSTOMER VALIDATION

• Biol Res. 2023 Mar 11;56(1):10.

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

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