Dyrk1A-IN-5

Cat. No.: HY-146221

CAS No.: 1685235-41-9

Molecular Formula: $C_{16}H_9IN_2O_2$

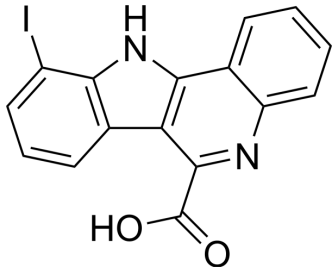
Molecular Weight: 388.16

Target: DYRK

Pathway: Protein Tyrosine Kinase/RTK

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 3.33 mg/mL (8.58 mM; ultrasonic and warming and heat to 160°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5763 mL	12.8813 mL	25.7626 mL
	5 mM	0.5153 mL	2.5763 mL	5.1525 mL
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

Dyrk1A-IN-5 (compound 5j) is a potent and selective DYRK1A inhibitor, with an IC_{50} of 6 nM. Dyrk1A-IN-5 dose-dependently reduces the phosphorylation of Thr434 in SF3B1, with an IC_{50} of 0.5 μM. Dyrk1A-IN-5 inhibits phosphorylation of tau at Thr212, with an IC_{50} of 2.1 μM. Dyrk1A-IN-5 can be used for Down syndrome research[1].

IC_{50} & Target	DYRK1A	DYRK1B	DYRK2
	6 nM (IC_{50})	600 nM (IC_{50})	>10000 nM (IC_{50})

REFERENCES

[1]. Falke H, et al. 10-iodo-11H-indolo[3,2-c]quinoline-6-carboxylic acids are selective inhibitors of DYRK1A. J Med Chem. 2015 Apr 9;58(7):3131-43.

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

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