Cdc7-IN-1

Cat. No.: HY-101523

CAS No.: 1402055-25-7

Molecular Formula: $C_{21}H_{16}ClN_3O_4$

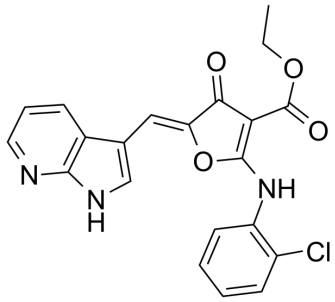
Molecular Weight: 409.82

Target: CDK

Pathway: Cell Cycle/DNA Damage

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 : 5.2 mg/mL (12.69 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.4401 mL	12.2005 mL	24.4010 mL
5 mM	0.4880 mL	2.4401 mL	4.8802 mL
10 mM	0.2440 mL	1.2200 mL	2.4401 mL

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

BIOLOGICAL ACTIVITY

Description

Cdc7-IN-1 (Compound 13) is a highly potent, selective and ATP competitive inhibitor of Cdc7 kinase, with an IC_{50} value of 0.6 nM at 1 mM ATP and with slow off-rate characteristics. Cdc7-IN-1 potently inhibits Cdc7 activity in cancer cells, and effectively induces cell death[1].

IC_{50} & Target

IC50: 0.6 nM (Cdc7, at 1 mM ATP)[1]

REFERENCES

[1]. Irie T, et al. Discovery of novel furanone derivatives as potent Cdc7 kinase inhibitors. Eur J Med Chem. 2017 Apr 21;130:406-418.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA