# Inhibitors

# **CDK4/6-IN-2**

Cat. No.: HY-114339 CAS No.: 1800506-48-2 Molecular Formula:  $C_{27}H_{32}F_{2}N_{8}$ Molecular Weight: 506.59 CDK Target:

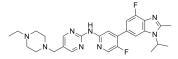
Pathway: Cell Cycle/DNA Damage

Storage: Powder -20°C 3 years

2 years

-80°C In solvent 2 years

> -20°C 1 year



**Product** Data Sheet

### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 5.2 mg/mL (10.26 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.9740 mL	9.8699 mL	19.7398 mL
	5 mM	0.3948 mL	1.9740 mL	3.9480 mL
	10 mM	0.1974 mL	0.9870 mL	1.9740 mL

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

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.52 mg/mL (1.03 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.52 mg/mL (1.03 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.52 mg/mL (1.03 mM); Clear solution

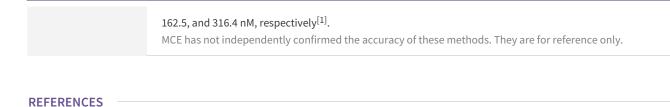
## **BIOLOGICAL ACTIVITY**

Description CDK4/6-IN-2 is a potent CDK4 and CDK6 inhibitor extracted from patent US20180000819A1, Compound 1, has IC<sub>50</sub>s of 2.7 and 16 nM for CDK4 and CDK6, respectively<sup>[1]</sup>.

CDK4 CDK6 IC<sub>50</sub> & Target

> 2.7 nM (IC<sub>50</sub>) 16 nM (IC<sub>50</sub>)

In Vitro CDK4/6-IN-2 inhibits H358, H441, PC3, MV-4-11, JeKo-1, SW780, and HGC-27 cells with IC<sub>50</sub>s of 290.9, 147.8, 260.5, 139, 36.98,



[1]. Frank Wu, et al. Kinase inhibitor and use thereof. US20180000819A1.

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

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