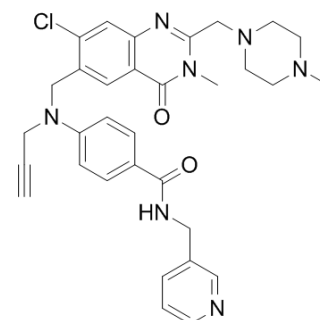


CB 300919

Cat. No.:	HY-14375		
CAS No.:	289715-28-2		
Molecular Formula:	C ₃₂ H ₃₄ ClN ₇ O ₂		
Molecular Weight:	584.11		
Target:	NAMPT		
Pathway:	Metabolic Enzyme/Protease		
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 : ≥ 100 mg/mL (171.20 mM)
 H₂O : < 0.1 mg/mL (insoluble)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		1.7120 mL	8.5600 mL	17.1201 mL
	5 mM		0.3424 mL	1.7120 mL	3.4240 mL
	10 mM		0.1712 mL	0.8560 mL	1.7120 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 3 mg/mL (5.14 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 3 mg/mL (5.14 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 3 mg/mL (5.14 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CB 300919 is a quinazoline-based antitumour agent with high activity in the CH1 human ovarian tumour xenograft. CB 300919 has a continuous exposure (96 h) growth inhibition IC₅₀ value of 2 nM in human CH1 ovarian tumor xenograft^[1].

REFERENCES

[1]. Lockman JW, et al. Analogues of 4-[(7-Bromo-2-methyl-4-oxo-3H-quinazolin-6-yl)methylprop-2-ynylamino]-N-(3-pyridylmethyl)benzamide (CB-30865) as Potent Inhibitors of Nicotinamide Phosphoribosyltransferase (Namp1). J. Med. Chem., 2010, 53 (24), pp 8734-8746

[2]. Bavetsias, V. et al. The Design and Synthesis of Water-Soluble Analogues of CB30865, a Quinazolin-4-one-Based Antitumor Agent. Journal of Medicinal Chemistry (2002), 45(17), 3692-3702.

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