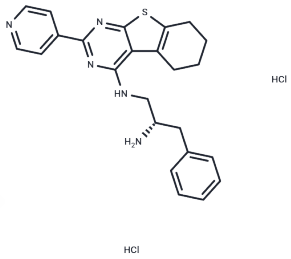
Data Sheet (Cat.No.T10888)

TargetMol

CRT0066854 hydrochloride

Chemical Properties



CAS No. :	2250019-91-9
Formula:	C24H27Cl2N5S
Molecular Weight:	488.48
Storage:	Powder: -20°C for 3 years | In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	CRT0066854 hydrochloride is an effective selective atypical PKCs inhibitor. CRT0066854 is against full-length (FL) PKCι, PKCζ, and ROCK-II kinases with IC50 values of 132 nM, 639 nM, and 620 nM, respectively.
Targets(IC50)	PKC,ROCK
In vitro	CRT0066854 hydrochloride replaces the crucial Asn-Phe-Asp motif, which is part of the adenosine binding pocket and joins with the acidic patch used by the PKC substrate rich in arginine. CRT0066854 hydrochloric acid Salt (0.2-1.2μM; 6 days) can restore polarized morphogenesis. Among the dysplastic H-Ras spheroids, the maximum proportion of PSAL spheroids was 1.2 μM at a lower dose[1].

Solubility Information

Solubility	DMSO: 45 mg/mL (92.12 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (10.24 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0472 mL	10.2358 mL	20.4717 mL
5 mM	0.4094 mL	2.0472 mL	4.0943 mL
10 mM	0.2047 mL	1.0236 mL	2.0472 mL
50 mM	0.0409 mL	0.2047 mL	0.4094 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kjær S, et al. Adenosine-binding motif mimicry and cellular effects of a thieno[2,3-d]pyrimidine-based chemical inhibitor of atypical protein kinase C isoenzymes. Biochem J. 2013 Apr 15;451(2):329-42.