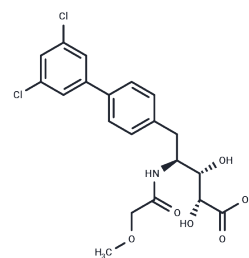


CC0651

Chemical Properties

CAS No. :	1319207-44-7
Formula:	C ₂₀ H ₂₁ Cl ₂ N ₂ O ₆
Molecular Weight:	442.29
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	CC0651 is a highly selective allosteric inhibitor of human Cdc34 ubiquitin-conjugating enzyme (UCE), inhibiting p27 Kip1 ubiquitination (IC ₅₀ =1.72 μM) by blocking ubiquitin transfer to substrates, for use in cancer research.
Targets(IC ₅₀)	E1/E2/E3 Enzyme
In vitro	CC0651 (30μM) significantly inhibited the proliferation of PC-3 cells and induced the accumulation of p27Kip1, an effect that was reversed in cells with hCdc34 knocked down by shRNA [1]. CC0651 inhibited the Cdc34A-mediated ubiquitination reaction with an IC ₅₀ value of 18±1 μM. CC0651 also suppressed the spontaneous hydrolysis rate of Cdc34A-ubiquitin thioester [2].

Solubility Information

Solubility	DMSO: ≥ 40 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.261 mL	11.3048 mL	22.6096 mL
5 mM	0.4522 mL	2.261 mL	4.5219 mL
10 mM	0.2261 mL	1.1305 mL	2.261 mL
50 mM	0.0452 mL	0.2261 mL	0.4522 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

Ceccarelli DF, et al. An allosteric inhibitor of the human Cdc34 ubiquitin-conjugating enzyme. *Cell*. 2011 Jun 24;145(7):1075-87.

Huang H, et al. E2 enzyme inhibition by stabilization of a low-affinity interface with ubiquitin. *Nat Chem Biol*. 2014 Feb;10(2):156-63.

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