

Product Data Sheet

Product Name: CCT400028

Cat. No.: GC80921

Chemical Properties

Cas. No.

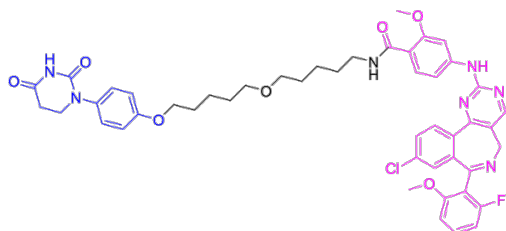
Formula $C_{47}H_{49}ClFN_7O_7$ M.Wt 878.39

Solubility DMSO: 100 mg/mL (113.84 mM; Need ultrasonic) Storage Store at 4°C, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

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

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CCT400028 is a PROTACs -class degrader that targets the Aurora A (AURKA) kinase. CCT400028 induces ubiquitination and proteasomal degradation of target proteins by recruiting the cereblon (CRBN) E3 ubiquitin ligase. The K_D values of CCT400028 against the three subtypes of human AURKA are 71 nM, 2100 nM and >10000 nM, respectively, and its IC₅₀ against human CRBN is 6300 nM. CCT400028 is applicable to relevant research on leukemia, neuroblastoma and glioma [1]. (Pink: Aurora A ligand; Blue: Cereblon ligand; Black: linker).

In Vitro, CCT400028 (0.001-10 µM; 0-24 h) shows no hook effect, potently degrades Aurora A in MV4-11 human pediatric leukemia cells, with a DC₅₀ of 29 nM at 6 h and a DC_{max} of 85%; it also induces potent and sustained (24 h) Aurora A degradation in human pediatric neuroblastoma Kelly cells[1]. The Aurora A degradation activity of CCT400028 (1 µM; 4 h) in human pediatric neuroblastoma Kelly cells can be blocked by proteasome function inhibitors, Cullin ring ligase activity inhibitors, CRBN-binding inhibitors, and Aurora A-binding inhibitors (inhibitors require 2 h of pre-treatment)[1]. CCT400028 (0.01-10 µM; 72 h) inhibits the viability of human pediatric leukemia cells MV4-11, with a GI₅₀ of 310 nM[1].

References:

[1]. O'Hanlon JA, et al. Unhooking the Hook: Optimization of the Aurora A Targeting PROTAC JB170 to CCT400028, an In Vitro Degradation Chemical Probe. J Med Chem. 2026 Jan 22;69(2):1552-1567.

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