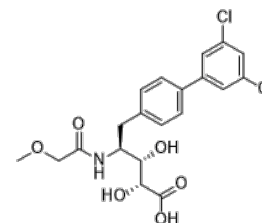


**Product Name** : CC0651  
**Cat. No.** : PC-23077  
**CAS No.** : 1319207-44-7  
**Molecular Formula** : C<sub>20</sub>H<sub>21</sub>Cl<sub>2</sub>NO<sub>6</sub>  
**Molecular Weight** : 442.29  
**Target** : Ubiquitin-conjugating Enzyme (E2)  
**Solubility** : 10 mM in DMSO



## Biological Activity

CC0651 is a specific, allosteric inhibitor of ubiquitin-conjugating enzyme (E2) Cdc34 with IC<sub>50</sub> of 1.72 μM for inhibition of ubiquitination of p27Kip1 by hCdc34.

CC0651 has effect on activity of other E2-E3 enzymes, including SMURF2, the Shigella IpaH enzyme SspH1, or the human RING domain enzyme Rnf168.

CC0651 decreases cell proliferation and causes p27Kip1 accumulation in PC-3 cells.

CC0651 engages a composite binding pocket formed from Cdc34A and ubiquitin.

CC0651 also suppresses the spontaneous hydrolysis rate of the Cdc34A-ubiquitin thioester without decreasing the interaction between Cdc34A and the RING domain subunit of the E3 enzyme.

## References

Ceccarelli DF, et al. Cell. 2011 Jun 24;145(7):1075-87.

Kleiger G, et al. Nat Chem Biol. 2014 Feb;10(2):156-163.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com