

Product Name: CC 0651

Catalog No.: 4503

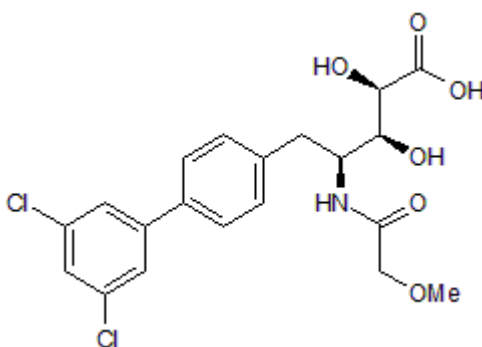
Batch No.: 1

CAS Number: 1319207-44-7

IUPAC Name: (2*R*,3*S*,4*S*)-5-[4-(3,5-Dichlorophenyl)phenyl]-2,3-dihydroxy-4-(2-methoxyacetamido)pentanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₁Cl₂NO₆
Batch Molecular Weight: 442.29
Physical Appearance: Off White solid
Solubility: 1eq. NaOH to 100 mM
DMSO to 100 mM
ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Dichloromethane:Methanol [4:1])
HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.31	4.79	3.17
Found	54.7	4.75	3.16

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Allosteric inhibitor of human Cdc34. Inhibits hCdc34-mediated ubiquitination of p27^{Kip1} (IC₅₀ = 1.72 μM). Exhibits selectivity for hCdc34 over Uba1, Ube2G1, UbcH7, UbcH5, Ube2N (Ubc13), Ube2R2, SMURF2, SspH1 and Rnf168.

Physical and Chemical Properties:

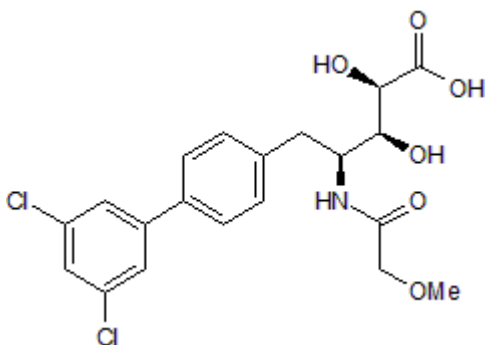
Batch Molecular Formula: C₂₀H₂₁Cl₂NO₆

Batch Molecular Weight: 442.29

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

1eq. NaOH to 100 mM

DMSO to 100 mM

ethanol to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Huang et al (2014) E2 enzyme inhibition by stabilization of a low-affinity interface with ubiquitin. *Nat.Chem.Biol.* **10** 156. PMID: 24316736.

Ceccarelli et al (2011) An allosteric inhibitor of the human Cdc34 ubiquitin-conjugating enzyme. *Cell* **145** 1075. PMID: 21683433.

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