
Product Data Sheet

Product Name: CAY10677

Cat. No.: GC18949

Chemical Properties

Cas. No. 1443253-20-0

Chemical Name 5-(2-amino-5-pyrimidinyl)-N,N-diethyl-1-octyl-1H-indole-3-methanamine

SMILES CCN(CC)CC1=CN(CCCCCCCC)C2=CC=C(C3=CN=C(N)N=C3)C=C21Formula C₂₅H₃₇N₅ M.Wt 407.6

Solubility DMF: 16 mg/ml, DMSO: 25 mg/ml, Ethanol: 20 mg/ml Storage Store at -20°C

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**

Post-translational protein prenylation is a 3-step process that occurs at the C-terminus of a number of proteins involved in cell growth control and oncogenesis. Isoprenylcysteine carboxyl methyltransferase (Icmt) catalyzes the methylation of C-terminal prenylcysteine residues, the last step in this process. CAY10677 is an analog of the Icmt inhibitor cysmethynil that was developed for improved solubility and cell permeability. CAY10677 inhibits Icmt with an IC₅₀ value of 0.86 μM and demonstrates nearly 10-fold more potent antiproliferative activity than cysmethynil on human breast cancer MDA-MB-231 cells (IC₅₀s = 2.63 versus 27.4 μM, respectively) and human prostate cancer PC3 cells (IC₅₀s = 2.55 versus 25.2 μM, respectively).

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

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