

Product Data Sheet

Product Name: NG 52
Cat. No.: GC36732

Chemical Properties

Cas. No. 212779-48-1

SMILES C1C1=CC(NC2=NC(NCCO)=NC3=C2N=CN3C(C)C)=CC=C1

Formula $C_{16}H_{19}ClN_6O$ M.Wt 346.81

Solubility DMSO: 100 mg/mL (288.34 mM) 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.

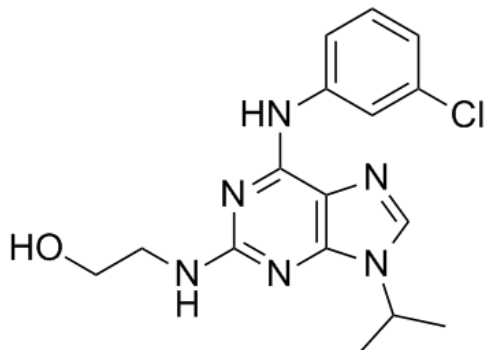
Caution: Product has not been fully validated for medical applications. For research use only.

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Structure



Background

NG 52 (Compound 52) is a potent, cell-permeable, reversible, selective, and ATP-compatible inhibitor of the cell cycle-regulating kinase, Cdc28p ($IC_{50} = 7 \mu M$), and the related Pho85p kinase ($IC_{50} = 2 \mu M$). IC_{50} value: $7 \mu M$ [1] Target: Cdc28p Compound 52 inhibited growth in a drug-sensitized yeast strain with a GI_{50} of $30 \mu M$. In contrast, the closely related compound 52Me proved to be a significantly weaker inhibitor of yeast growth ($GI_{50} = 200 \mu M$). cdc2-cyclin B $0.34 \mu M$ (IC_{50}) | Pho85p $2 nM$ (IC_{50})

[1]. ray NS, Wodicka L, Thunnissen AM et al. Exploiting chemical libraries, structure, and genomics in the search for kinase inhibitors. Science. 1998 Jul 24;281(5376):533-8.

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