

Product Data Sheet

Product Name: Diminutol

Cat. No.: GC43469

Chemical Properties

Cas. No. 361431-33-6

SMILES CC(C)N1C2=NC(N[C@@H](CO)C(C)C)=NC(SC3=CC=CC(N)=C3)=C2N=C1

Formula C₁₉H₂₆N₆O₂

M.Wt 386.5

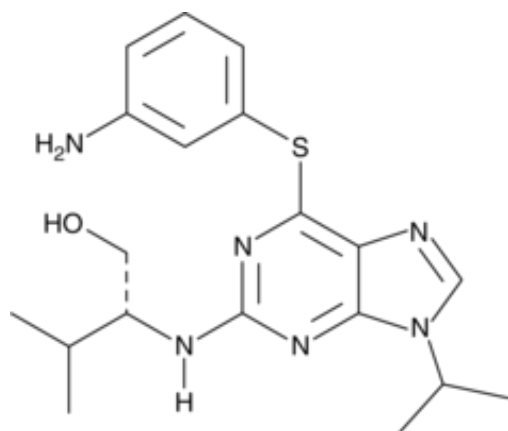
Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS(pH7.2) (1:1): 0.5 mg/ml, Ethanol: 20 mg/ml

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

Diminutol is a cell-permeable purine derivative that inhibits the NADP-dependent oxidoreductase, NQO1 ($K_i = 1.72 \mu\text{M}$), to destabilize microtubules and disrupt mitosis. At 50 μM , it directly affects tubulin polymerization in *Xenopus* egg extracts without interfering with the activity of Cdk1, DNA replication, or actin polymerization.

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

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