
Product Data Sheet

Product Name: ML 315 hydrochloride

Cat. No.: GC50239

Chemical Properties

Cas. No. 1440251-53-5

SMILES C1C=CC(CNC2=NC=NC=C2C3=CC=C(OCO4)C4=C3)=CC(Cl)=C1.ClFormula $C_{18}H_{13}Cl_2N_3O_2.HCl$ M.Wt 410.68

Solubility Soluble in DMSO 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**

Inhibitor of cdc2-like kinases (Clk) and DYRK kinases (IC50 values are 68, 68 and 231 nM for Clk1, Clk4 and Clk2, respectively, and 282 and 1156 nM for Dyrk1A and Dyrk1B). Shows 20-fold selectivity for Clk4 over Dyrk1A. Stable in both mouse and human plasma. Moderately cell permeable.

Coombs et al (2013) Small-molecule pyrimidine inhibitors of the cdc2-like (Clk) and dual specificity tyrosine phosphorylation-regulated (Dyrk) kinases: development of chemical probe ML315. Bioorg.Med.Chem.Lett. 23 3654 PMID:23642479

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

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