

Product Data Sheet

Product Name: CHK1-IN-3

Cat. No.: GC35679

Chemical Properties

Cas. No. 2097252-39-4

SMILES CNC1=C(C2=CN(C)N=C2)C=NC(NC3=CN=C(C#N)C(O[C@H]4CNCCC4)=C3)=N1

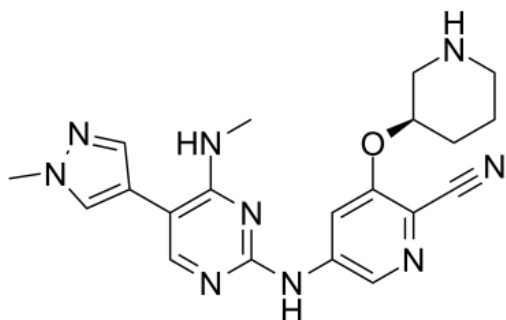
Formula $C_{20}H_{23}N_9O$ M.Wt 405.46

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

CHK1-IN-3 is a Checkpoint Kinase 1 (CHK1) inhibitor with an IC₅₀ of 0.4 nM[1]. Chk1|0.4 nM (IC₅₀)

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

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CHK1-IN-3 effectively inhibites the growth of malignant hematopathy cell lines especially Z-138 (IC₅₀: 0.013 μ M) and displays low affinity for hERG (IC₅₀ > 40 μ M)[1].

CHK1-IN-3 significantly suppresses the tumor growth in Z-138 cell inoculated xenograft model as a single agent with body weight unaffected[1].

[1]. Tong L, et al. Discovery of (R)-5-((5-(1-methyl-1H-pyrazol-4-yl)-4-(methylamino)pyrimidin-2-yl)amino)-3-(piperidin-3-yloxy)picolinonitrile, a novel CHK1 inhibitor for hematologic malignancies. Eur J Med Chem. 2019 Jul 1;173:44-62.

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