

Product Data Sheet

Product Name: B-Raf inhibitor 1

Cat. No.: GC11599

Chemical Properties

Cas. No. 1093100-40-3

Chemical Name 1-N-(4-chlorophenyl)-6-methyl-5-N-[3-(7H-purin-6-yl)pyridin-2-yl]isoquinoline-1,5-diamine

SMILES CC1=C(C2=C(C=C1)C(=NC=C2)NC3=CC=C(C=C3)Cl)NC4=C(C=CC=N4)C5=C6C(=NC=N5)N=CN6

Formula C₂₆H₁₉ClN₈

M.Wt 478.94

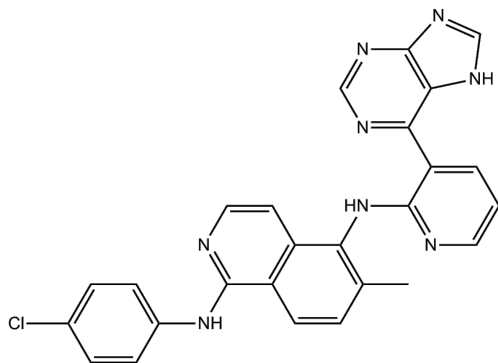
Solubility ≥ 47.9mg/mL in DMSO

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

B-Raf inhibitor 1 is a potent Raf kinase inhibitor with Kis of 1 nM, 1 nM, and 0.3 nM for B-RafWT, B-RafV600E, and C-Raf, respectively.

B-Raf inhibitor 1 (Compound 13) inhibits A375 and HCT-116 proliferation with IC₅₀s of 0.31 and 0.72 μM, respectively. B-Raf inhibitor 1 (Compound 13) binds to and stabilizes B-Raf in a DFG-out, inactive conformation in which the ATP pocket is partially filled by Phe595 and Gly596 from the DFG

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

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motif. B-Raf inhibitor 1 (Compound 13) additionally exhibits low micromolar inhibition against wild type B-Raf cell lines, which may be due to off-target kinase activities or alternatively to pan-Raf inhibition, including Raf dimers[1].

References:

[1]. Wang X, et al. Conformation-specific effects of Raf kinase inhibitors. J Med Chem. 2012 Sep 13;55(17):7332-41.

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