Taiclone®
Quality Guarantee

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B-Raf inhibitor 1

Catalog No: tcsc2182

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1093100-40-3

Formula:
$C_{26}H_{19}ClN_8$

Pathway:
MAPK/ERK Pathway

Target:
Raf

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 53 mg/mL (110.66 mM)

Observed Molecular Weight:
478.94

Product Description

B-Raf inhibitor 1 is a potent **Raf** kinase inhibitor with $\mathbf{K_i}$s of 1 nM, 1 nM, and 0.3 nM for B-Raf^{WT}, B-Raf^{V600E}, and C-Raf, respectively.

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IC50 & Target: Ki: 1 nM (B-Raf^{WT}), 1 nM (B-Raf^{V600E}), 0.3 nM (C-Raf)[1]

In Vitro: B-Raf inhibitor 1 (Compound 13) inhibits A375 and HCT-116 proliferation with IC_{50}s 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 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].