Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Spebrutinib

Catalog No: tcsc1482

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1202757-89-8

Formula:
$C_{22}H_{22}FN_5O_3$

Pathway:
Protein Tyrosine Kinase/RTK

Target:
Btk

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 45 mg/mL (106.27 mM)

Alternative Names:
AVL-292;CC-292

Observed Molecular Weight:
423.44

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Product Description

Spebrutinib (AVL-292; CC-292) is a covalent, orally active, and highly selective with an **IC_{50}** of 0.5 nM.

IC50 & Target: IC50: [1]

In Vitro: Spebrutinib (CC-292) is a covalent, highly selective, orally active inhibitor of Btk with IC_{50} value of 0.5 nM. Spebrutinib also less potently inhibits Yes, c-Src, Brk, Lyn, and Fyn with IC_{50}s of 723 nM, 1.729 μM, 2.43 μM, 4.4 μM, and 7.15 μM, rspectively. Extensive analysis has revealed that the EC_{50} of Btk occupancy from a Spebrutinib dose-response in Ramos cells (EC_{50}=6 nM) correlated directly with the cellular EC_{50} of Btk kinase inhibition with Spebrutinib (EC_{50}=8 nM). Furthermore, the concentration at which Spebrutinib inhibits 90% of Btk activity in Ramos cells is 35 nM while the concentration of Spebrutinib required for 90% occupancy of Btk is 39 nM[1].