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

CEP-28122

Catalog No: tcsc5176

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1022958-60-6

Formula:
$C_{28}H_{35}ClN_6O_3$

Pathway:
Protein Tyrosine Kinase/RTK

Target:
ALK

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
539.07

Product Description

CEP-28122 is a highly potent and selective orally active ALK inhibitor with IC50 of 1.9 ± 0.5 nM in an enzyme-based TRF assay.

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IC50 value: 1.9 ± 0.5 nM

Target: ALK

in vitro: CEP-28122 is a potent inhibitor of recombinant ALK activity and cellular ALK tyrosine phosphorylation. CEP-28122 also inhibits Flt4 with IC50 of 46 ±10 nM. CEP-28122 induces concentration-dependent growth inhibition/cytotoxicity of ALK-positive anaplastic large-cell lymphoma (ALCL), non-small cell lung cancer (NSCLC), and neuroblastoma cells. [1]

in vivo: CEP-28122 displays dose-dependent inhibition of ALK tyrosine phosphorylation in tumor xenografts in mice, with substantial target inhibition (>90%) for more than12 hours following single oral dosing at 30 mg/kg. Dose-dependent antitumor activity was observed in ALK-positive ALCL, NSCLC, and neuroblastoma tumor xenografts in mice administered CEP-28122 orally, with complete/near complete tumor regressions observed following treatment at doses of 30 mg/kg twice daily or higher. [1]