

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.

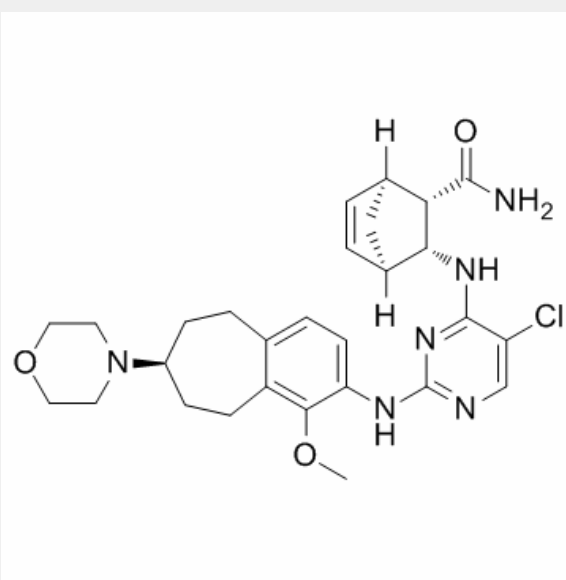
IC50 value: 1.9 ± 0.5 nM

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 than 12 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]



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