Web: www.taiclone.com
Tel: +886-2-2735-9682
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Repotrectinib

Catalog No: tcsc7628

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Specifications

CAS No:
1802220-02-5

Formula:
$C_{18}H_{18}FN_5O_2$

Pathway:
Protein Tyrosine Kinase/RTK;Protein Tyrosine Kinase/RTK;Protein Tyrosine Kinase/RTK

Target:
ROS;Trk Receptor;ALK

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 83.3 mg/mL (234.40 mM)

Alternative Names:
TPX-0005

Observed Molecular Weight:
355.37

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Product Description

Repotrectinib (TPX-0005) is a potent **ALK/ROS1/TRK** inhibitor, with **IC_{50}** of 5.3 nM, 1.01 nM, 1.26 nM and 1.08 nM for SRC, WT ALK, ALK G1202R and ALK L1196M, respectively.

IC50 & Target: IC50: 5.3 nM (SRC), 1.01 nM (WT ALK), 1.26 nM (ALK G1202R), 1.08 nM (ALK L1196M)[1]

In Vitro: Repotrectinib (TPX-0005) effectively overcomes this primary resistance (IC_{50} 100 nM in cell proliferation assay) with strong inhibition of the phosphorylation of EML4-ALK (IC_{50} 13 nM) and the SRC substrate paxillin (IC_{50} 107 nM). Repotrectinib inhibits H2228 cell migration in a wound healing assay with similar activity to saracatinib[1].

In Vivo: Repotrectinib (TPX-0005) effectively inhibits tumor growth in vivo in ALK WT and ALK G1202R xenografts[1].