

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

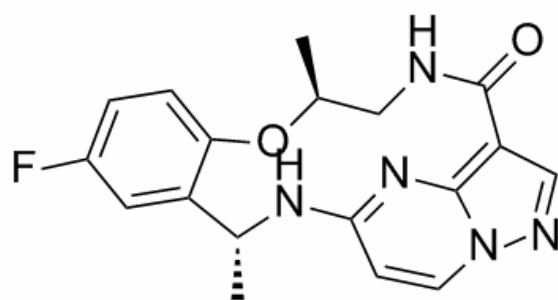
Product Description

Repotrectinib (TPX-0005) is a potent **ALK/ROS1/TRK** inhibitor, with **IC₅₀** 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 (IC₅₀ 100 nM in cell proliferation assay) with strong inhibition of the phosphorylation of EML4-ALK (IC₅₀ 13 nM) and the SRC substrate paxillin (IC₅₀ 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].



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