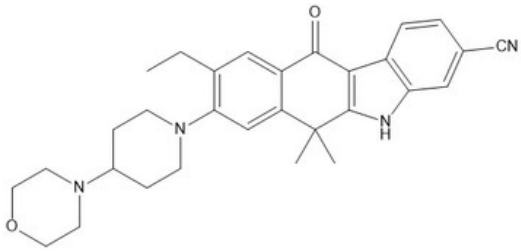
Tribioscience

Alectinib, ALK inhibitor, potent

Catalog	Unit
TBI4793-5MG	5 mg
TBI4793-25MG	25 mg

Product Details

Formal Name: 9-Ethyl-6,6-dimethyl-8-(4-morpholin-4-ylpiperidin-1-yl)-11-oxo-5H-benzo[b]carbazole-3-carbonitrile
Alternate Names: CH5424802; RO5424802
Molecular Formula: $C_{30}H_{34}N_4O_2$
Formula Weight: 482.60
CAS Number: 1256580-46-7
Purity: >99%
Formulation: powder
Solubility: Soluble in DMSO (up to 5 mg/ml) with warming
Storage: -20°C
Stability: ≥ 1 year.



Applications

ALK inhibitor, potent

Functions

Potent inhibitor of wild-type and fusion ALK (IC50 = 1.9 nM) and RET (IC50 = 4.8 nM), but not ROS1 tyrosine kinase activity. Significantly reduces proliferation and induces apoptosis in NSCLC, however these tumors can become resistant by activating Yes-associated protein 1 (YAP1). Causes cell death in glioblastoma cells via inhibition of STAT3, and prolongs the survival of mice harboring intracerebral GBM xenografts. Has been used to enable allogeneic stem cell transplantation in a patient with ALK-positive anaplastic large-cell lymphoma. Clinically useful anticancer agent.

Application Procedures

First dissolved in DMSO (up to 5 mg/ml) with warming, then diluted to aqueous buffer. Solutions in DMSO may be stored at -20° for up to 2 months.

For research use only.

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