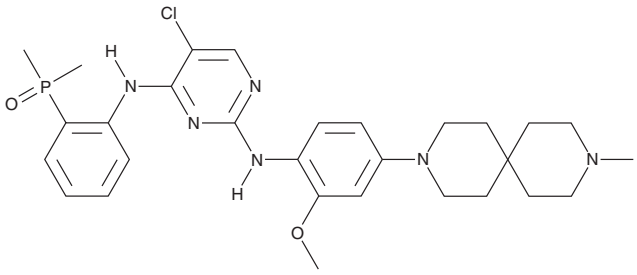
PRODUCT INFORMATION

Iruplinalkib

Item No. 46228

CAS Registry No.: 1854943-32-0
Formal Name: 5-chloro-N-[2-(dimethylphosphinyl)phenyl]-N-[2-methoxy-4-(9-methyl-3,9-diazaspiro[5.5]undec-3-yl)phenyl]-2,4-pyrimidinediamine
Synonym: WX-0593
MF: $C_{29}H_{38}ClN_6O_2P$
FW: 569.1
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Iruplinalkib is supplied as a solid. A stock solution may be made by dissolving the iruplinalkib in the solvent of choice, which should be purged with an inert gas. Iruplinalkib is sparingly soluble (1-10 mg/ml) in a 1:1 solution of acetonitrile:water.

Description

Iruplinalkib is an inhibitor of anaplastic lymphoma kinase (ALK), ALK^{L1196M}, and ALK^{C1156Y} (IC_{50}s = 1.6, 1.7, and 1.8 nM, respectively).[1] It inhibits the proliferation of Ba/F3 cells expressing wild-type ALK, ALK^{L1196M}, ALK^{C1156Y}, or a variety of ALK fusion proteins (IC_{50}s = 13, 24, 21, and 1-96 nM, respectively) and Karpas 299 anaplastic large-cell lymphoma (ALCL) cells (IC_{50} = 14.5 nM). Iruplinalkib also inhibits the proliferation of Ba/F3 cells expressing wild-type c-Ros oncogene 1 (ROS1) or ROS1 fusion proteins (IC_{50}s = 11 and 12-22 nM, respectively). It reduces tumor growth in a crizotinib-resistant patient-derived xenograft (PDX) mouse model of non-small cell lung cancer (NSCLC) at 2.5-10 mg/kg.

Reference

1. Liu, X., Zhang, L., Wan, H., *et al*. Discovery and preclinical evaluations of WX-0593, a novel ALK inhibitor targeting crizotinib-resistant mutations. *Bioorg. Med. Chem. Lett.* **66**, 128730 (2022).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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