

Store at
-20C
#31443**Alectinib**

5 mg



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Background

Alectinib (CH5424802) is a potent, selective ALK inhibitor with an IC₅₀ value of 1.9 nM. In addition to blocking phosphorylation of native ALK, it also blocks phosphorylation of ALK mutant strands L1196M, F1174L, R1275Q, and C1156Y (1,2). L1196M is found in tumor cells of patients with non-small cell lung cancer (NSCLC). Alectinib has been shown to have antitumor activity in mouse xenograft models of NSCLC by inhibiting tumor growth via suppression of cell growth and apoptosis (1).

Molecular Formula

C₃₀H₃₄N₄O₂

Molecular Weight

482.6 g/mol

Purity

>99%

CAS

1256580-46-7

Solubility

Soluble in DMSO at 5 mg/mL.

Storage

Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 3 months to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use

Alectinib is supplied as a lyophilized powder. For a 10 mM stock, reconstitute 5 mg of powder in 1.04 mL of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

Background References

1. Sakamoto, H. et al. (2011) *Cancer Cell* 19, 679-90.
2. Awad, M.M. and Shaw, A.T. (2014) *Clin Adv Hematol Oncol* 12, 429-39.

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