Store at -20°C

Alectinib

#31443

5 mg

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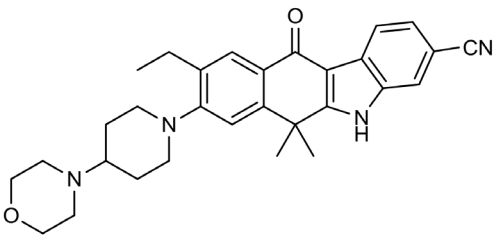
For Research Use Only. Not For Use In Diagnostic Procedures.

Background: Alectinib (CH5424802) is a potent, selective ALK inhibitor with an IC_{50} 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: $C_{30}H_{34}N_4O_2$



Molecular Weight: 482.6 g/mol

Purity: >99%

CAS: 1256580-46-7

Solubility: Soluble in DMSO at 5 mg/mL.

Storage: Store lyophilized at -20ºC, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20ºC 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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Applications: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide **Species Cross-Reactivity:** **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—Horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.