


Certificate of Analysis

Catalog Number	BP10302
Product Name	Alectinib

Physical and Chemical Properties

Synonyms	CH5424802, RG-7853, AF-802, AF802
CAS No.	1256580-46-7
Chemical Formula	C30H34N4O2
Molecular Weight	482.628
Solubility	H ₂ O: 2.1 mM DMSO: 12.4 mM
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	Alectinib (CH5424802) is a potent, selective, and orally available ALK inhibitor with an IC ₅₀ of 1.9 nM and a K _d value of 2.4 nM (in an ATP-competitive manner), and also inhibits ALK F1174L and ALK R1275Q with IC ₅₀ s of 1 nM and 3.5 nM, respectively. Alectinib demonstrates effective central nervous system (CNS) penetration.
Targets&IC ₅₀	ALK: 1.9 nM, ALK (R1275Q): 3.5 nM, ALK (F1174L): 1 nM

In vitro	Cells including NSCLC, A549 and HCC827 are seeded in 96-well plates overnight and incubated with various concentrations of CH5424802 for the indicated time. For spheroid cell growth inhibition assay, cells are seeded on spheroid plates, incubated overnight, and then treated with compound for the indicated times. The viable cells are measured by the Luminescent Cell Viability Assay. Caspase-3/7 assay is evaluated using the Caspase-Glo 3/7 Assay Kit.(Only for Reference)
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Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

Purdue Bioscience Inc.

750 50th St, Brooklyn, NY 11220, USA

<https://www.purduebio.com>

1-877.618.7311

info@purduebio.com

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