Cat No. 73-P27

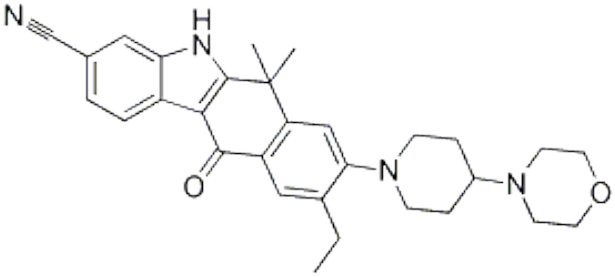
CH5424802

5mg

For research purposes only

CH5424802, also known as AF802, is a potent and selective Anaplastic lymphoma kinase (ALK) inhibitor. ALK is a tyrosine kinase that is constitutively activated in certain cancers, following gene alterations such as chromosomal translocation, amplification, or point mutation. It has shown limited inhibition of other kinases, GAK and LTK. LTK is known to show greatest sequence similarity to ALK. Some studies have shown CH5424802 to have selective antitumor activity against various cancer cells with genetic alterations of ALK.

TECHNICAL INFORMATION



Other Names: 9-Ethyl-6,6-Dimethyl-8-[4-(Morpholin-4-YI)piperodin-1-YI]-11-Oxo-6,11-Dihydro-5h-Benzo [b]carbazole-3-Carbonitrile

Chemical Formula: $C_{30}H_{34}N_4O_2$

CAS Number: 1256580-46-7

PubChem Substance ID: 49806720

Molecular Weight: 482.62

Purity: >99%

Appearance: White Powder

Solubility: DMSO

IC_{50} : 1.9nM

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO. Soluble at 20mg/ml.

REFERENCES

1. Kinoshita, K., et al. (2012). Design and synthesis of a highly selective, orally active and potent anaplastic lymphoma kinase inhibitor (CH5424802). Bioorg Med Chem. 20:1271-80.
2. Sakamoto, H., et al (2011). CH5424802, a selective ALK inhibitor capable of blocking the resistant gatekeeper mutant. Cancer Cell. 19:679-90.