

# NVP-TAE 684

Catalog No: tcsc0004



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

761439-42-3

**Formula:**

$C_{30}H_{40}ClN_7O_3S$

**Pathway:**

Protein Tyrosine Kinase/RTK

**Target:**

ALK

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

TAE 684

**Observed Molecular Weight:**

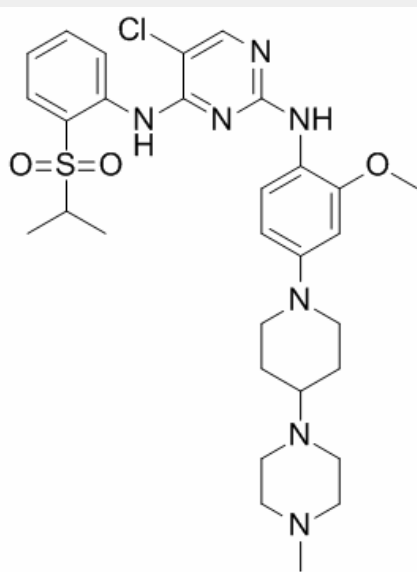
614.2

## Product Description

NVP-TAE 684 is a highly potent and selective **ALK** inhibitor, which blocks the growth of ALCL-derived and ALK-dependent cell lines with **IC<sub>50</sub>** values between 2 and 10 nM.

**In Vitro:** TAE684 inhibits the proliferation of Ba/F3 NPM-ALK cells with an IC<sub>50</sub> of 3 nM, without affecting the survival of parental Ba/F3 cells at concentrations up to 1 μM. TAE684 inhibits STAT3 and STAT5 phosphorylation in a dose-dependent manner in both Ba/F3 NPM-ALK and Karpas-299 cells. TAE684 induces apoptosis and G1 phase arrest in NPM-ALK-expressing Ba/F3 cells and ALCL patient cell lines<sup>[1]</sup>. NVP-TAE684 markedly reduces cell survival in both sensitive H3122 and H3122 CR cells, but has little to no effect on the viability of other, non-ALK-dependent cancer cell lines. NVP-TAE684 treatment of H3122 CR cells suppresses phosphorylation of ALK, AKT, and ERK and induces marked apoptosis. TAE684 potently suppresses the survival of Ba/F3 cells expressing the EML4-ALK L1196M mutant<sup>[2]</sup>. Neurite outgrowth induced by expression of the mALKR1279Q mutant is completely inhibited at 30 nM NVP-TAE684, which is comparable with the response seen with activated wt mALK<sup>[3]</sup>.

**In Vivo:** NVP-TAE684 suppresses lymphomagenesis in two independent models of ALK-positive ALCL and induces regression of established Karpas-299 lymphomas. TAE684 displays appreciable bioavailability and half-life in vivo. TAE684 (1, 3, and 10 mg/kg. p.o.) significantly delays in lymphoma development and shows 100- to 1,000-fold reduction in luminescence signal. The TAE684- (10 mg/kg) treated group appears healthy and does not display any signs of compound- or disease-related toxicity<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!