

# **Anlotinib Dihydrochloride**

## Catalog No: tcsc0040093

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

**Size:** 100mg

**Specifications** 

CAS No:

1360460-82-7

Formula:

 $\mathsf{C}_{23}\mathsf{H}_{24}\mathsf{Cl}_{2}\mathsf{FN}_{3}\mathsf{O}_{3}$ 

#### Pathway:

Protein Tyrosine Kinase/RTK;Protein Tyrosine Kinase/RTK;Protein Tyrosine Kinase/RTK

Target:

VEGFR;PDGFR;c-Kit

### Purity / Grade:

>98%

#### Solubility:

DMSO

#### **Alternative Names:**

AL3818 Dihydrochloride

# **Observed Molecular Weight:**

480.36

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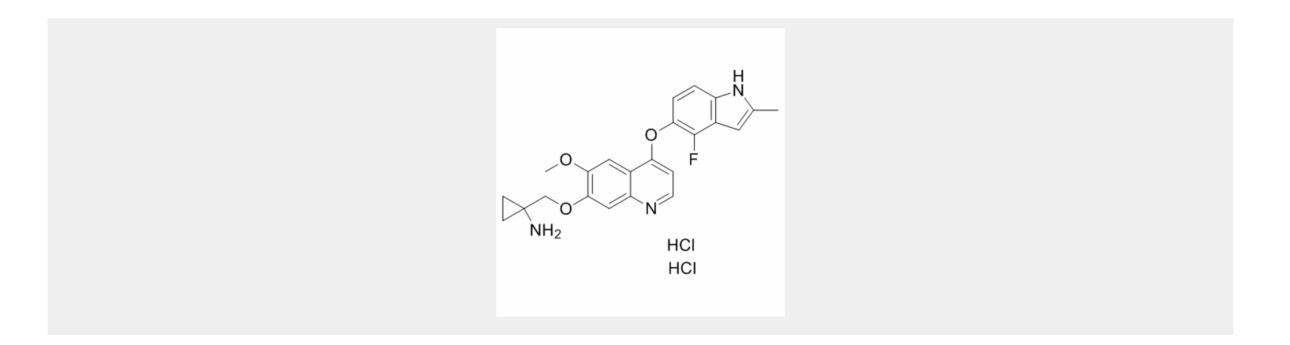
## **Product Description**

Anlotinib Dihydrochloride is a novel multi-target tyrosine kinase inhibitor that is designed to primarily inhibit VEGFR2/3, FGFR1-4, PDGFRα/β, c-Kit, and Ret.

IC50 & Target: VEGFR2/3, FGFR1-4, PDGFRα/β, c-Kit, Ret<sup>[1]</sup>

*In Vitro:* Anlotinib Dihydrochloride is a novel multi-target tyrosine kinase inhibitor that is designed to primarily inhibit VEGFR2/3, FGFR1-4, PDGFR $\alpha/\beta$ , c-Kit, and Ret<sup>[1]</sup>. The EC cell lines show differential sensitivity to Anlotinib Dihydrochloride (AL3818); AN3CA cells appear the most sensitive with an IC<sub>50</sub> value of 84 nM. The other cell lines are approximately 28- to 550-fold less sensitive to Anlotinib Dihydrochloride. HEC1B cells have an IC<sub>50</sub> value of 46  $\mu$ M, and MFE296 cells are sensitive to Anlotinib Dihydrochloride, with an IC<sub>50</sub> value of 2.9  $\mu$ M compare with 3.2, 28.9, 29, and 40  $\mu$ M for Ishikawa, MFE280, KLE, and HEC1A, respectively<sup>[2]</sup>.

*In Vivo:* Within the Anlotinib Dihydrochloride (AL3818)-treated (5 mg/kg) group (n=11), tumor size is found to be reduced 26-fold, with an average tumor volume of 164.8±70 mm<sup>3</sup>, when compare with the control group. Following treatment with Anlotinib Dihydrochloride, only 5 of the 11 mice are found to have residual tumor burden at the end of the treatment period. Treatment with Anlotinib Dihydrochloride decreases neoangiogenesis by 48.5% and cell proliferation by 27% when compare with the control group<sup>[2]</sup>.



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