

# Ensartinib hydrochloride

Catalog No: tcsc0043455



## Available Sizes

**Size:** 2mg

**Size:** 5mg

**Size:** 10mg



## Specifications

**CAS No:**

2137030-98-7

**Formula:**

$C_{26}H_{29}Cl_4FN_6O_3$

**Pathway:**

Protein Tyrosine Kinase/RTK;Protein Tyrosine Kinase/RTK

**Target:**

c-Met/HGFR;ALK

**Purity / Grade:**

>98%

**Solubility:**

H2O : 5 mg/mL (7.88 mM; Need ultrasonic and warming)

**Alternative Names:**

X-396 hydrochloride

**Observed Molecular Weight:**

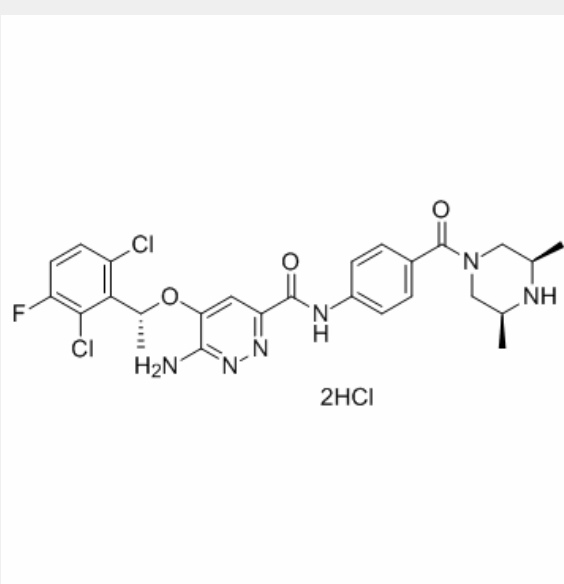
634.36

## Product Description

Ensartinib hydrochloride (X-396 hydrochloride) is a potent and dual **ALK/MET** inhibitor with **IC<sub>50</sub>**s of IC50 & Target: IC50: [1]

**In Vitro:** Ensartinib (X-396) is a potent and dual ALK/MET inhibitor with IC<sub>50</sub>s of EML4-ALK E13;A20 (IC<sub>50</sub>: 15 nM). Ensartinib is also potent in H2228 lung cancer cells harboring *EML4-ALK* E6a/b; A20 (IC<sub>50</sub>: 45 nM). Furthermore, X-376 is potent in SUDHL-1 lymphoma cells harboring *NPM-ALK* (IC<sub>50</sub>: 9 nM)<sup>[1]</sup>.

**In Vivo:** Ensartinib (X-396) shows substantial bioavailability and moderate half-lives in vivo. Nude mice harboring H3122 xenografts are treated with Ensartinib at 25 mg/kg bid. Ensartinib significantly delays the growth of tumors compared to vehicle alone. In the xenograft experiments, Ensartinib appears well-tolerated in vivo. Mouse weight is unaffected by Ensartinib treatment. Drug-treated mice appear healthy and do not display any signs of compound related toxicity. To further assess potential side effects of Ensartinib, additional systemic toxicity and toxico-kinetic studies are performed in Sprague Dawley (SD) rats. Following 10 days of repeated oral administration of Ensartinib at 20, 40, 80 mg/kg in SD rats, all animals survive to study termination. The no significant toxicity (NST) levels are determined to be 80 mg/kg for Ensartinib. At NST levels, Ensartinib achieves an AUC of 66 μM×hr and a C<sub>max</sub> of 7.19 μM<sup>[1]</sup>.



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