

<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> #4401 </div>	<div style="display: flex; justify-content: space-between;"> <div> <p>Crizotinib</p> <p>2.5 mg</p> </div> <div style="text-align: right;">  </div> </div>
	<div style="display: flex; justify-content: space-between;"> <div> <p>Orders:</p> <p>Support:</p> <p>Web:</p> </div> <div> <p>877-616-CELL (2355) orders@cellsignal.com</p> <p>877-678-TECH (8324)</p> <p>info@cellsignal.com cellsignal.com</p> </div> </div>
	<p>3 Trask Lane Danvers Massachusetts 01923 USA</p>
	<p>Store at -20°C</p>

For Research Use Only. Not for Use in Diagnostic Procedures.

Background	Crizotinib, also known as PF-02341066, is a novel, ATP-competitive receptor kinase inhibitor, showing high specificity for c-Met and anaplastic lymphoma kinase (ALK) over 120 other diverse kinases (1,2). Researchers have shown that crizotinib inhibits c-Met phosphorylation and c-Met-dependent proliferation, migration, and invasion of human tumor cells in vitro (IC ₅₀ values of 5–20 nM) (1). Crizotinib is effective against the constitutively active oncogenic fusion protein nucleophosmin (NPM)-ALK, inhibiting its phosphorylation (mean IC ₅₀ of 24 nM), inhibiting cell growth, and inducing G1-S phase cell cycle arrest and apoptosis in the ALK-positive ALCL (anaplastic large-cell lymphoma) cell lines KARPAS-299 and SU-DHL-1 (2).
Molecular Formula	C ₂₁ H ₂₂ Cl ₂ FN ₅ O
Molecular Weight	450.34 g/mol
Purity	>99%
CAS	877399-52-5
Solubility	Soluble in DMSO and EtOH at 25mg/ml.
Storage	Store lyophilized or in solution at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, use within 3 months to prevent loss of potency. Aliquot to avoid multiple freeze/thaw cycles.
Directions for Use:	Crizotinib is supplied as a lyophilized powder. For a 1 mM stock, reconstitute the 2.5 mg in 5.55 ml DMSO. Working concentrations and length of treatments vary depending on the desired effect, but it is typically used at 0.1-1 µM for 2-6 h. Soluble in DMSO at 25 mg/ml with warming; very poorly soluble in water with maximum solubility ~10-20 µM.
Background References	<ol style="list-style-type: none"> 1. Zou, H.Y. et al. (2007) <i>Cancer Res</i> 67, 4408-17. 2. Christensen, J.G. et al. (2007) <i>Mol Cancer Ther</i> 6, 3314-22.

Cross-Reactivity Key **H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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