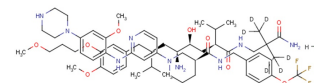


## ALK/ROS1-IN-1

## Chemical Properties

CAS No.:	2365497-07-8
Formula:	C30H35F3N6O3
Molecular Weight:	584.63
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	ALK/ROS1-IN-1 is a potent and selective anti-crizotinib-resistant ALK/ROS1 dual inhibitor (IC <sub>50</sub> s: 0.530 $\mu$ M and 0.174 $\mu$ M for ROS1 and ALK enzyme).
Targets(IC <sub>50</sub> )	ALK: 0.174 $\mu$ M ROS1: 0.530 $\mu$ M
In vitro	ALK/ROS1-IN-1 (compound 2e) displays potent anti-proliferative activity against ALK-addicted H3122 (IC <sub>50</sub> : 6.27 $\mu$ M) and ROS1-addicted HCC78 cell lines (IC <sub>50</sub> : 10.71 $\mu$ M). ALK/ROS1-IN-1 shows impressive enzyme activity against clinically Crizotinib-resistant ALK L1196M (IC <sub>50</sub> : 41.3 nM). ALK/ROS1-IN-1 shows potent inhibitory activity in Ba/F3 cell line expressing ROS1 mutants (IC <sub>50</sub> s: 137.7, 104.7 nM, and 233.9 for wide-type, G2032R mutant and L2026M mutant). ALK/ROS1-IN-1 has no significant effect on inducing apoptosis of the HCC78 cell line.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.71 mL	8.552 mL	17.105 mL
5 mM	0.342 mL	1.71 mL	3.421 mL
10 mM	0.171 mL	0.855 mL	1.71 mL
50 mM	0.034 mL	0.171 mL	0.342 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Liu S, et al. Design, synthesis and biological evaluations of 2-amino-4-(1-piperidine) pyridine derivatives as novel anti crizotinib-resistant ALK/ROS1 dual inhibitors. Eur J Med Chem. 2019 Oct 1;179:358-375.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481