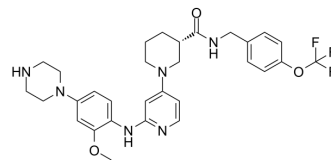


ALK/ROS1-IN-1

Cat. No.:	HY-130794
CAS No.:	2365497-07-8
Molecular Formula:	C ₃₀ H ₃₅ F ₃ N ₆ O ₃
Molecular Weight:	584.63
Target:	ALK; ROS
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ALK/ROS1-IN-1 (compound 2e) is a potent and selective anti crizotinib-resistant ALK/ROS1 dual inhibitor, with IC ₅₀ s of 0.174 μM and 0.530 μM for ALK and ROS1 enzyme, respectively.
IC₅₀ & Target	IC ₅₀ : 0.174 μM (ALK), 0.530 μM (ROS1) ^[1]
In Vitro	<p>ALK/ROS1-IN-1 displays potent anti-proliferative activity against ALK-addicted H3122 and ROS1-addicted HCC78 cell lines (IC₅₀= 6.27 μM and 10.71 μM, respectively)^[1].</p> <p>ALK/ROS1-IN-1 shows impressive enzyme activity against clinically Crizotinib-resistant ALK^{L1196M} with an IC₅₀ value of 41.3 nM^[1].</p> <p>ALK/ROS1-IN-1 shows potent inhibitory activity in Ba/F3 cell line expressing ROS1 mutants, with IC₅₀s of 137.7, 104.7 nM and 233.9 for wide-type, G2032R mutant and L2026M mutant, respectively^[1].</p> <p>ALK/ROS1-IN-1 has no significant effect on inducing apoptosis of HCC78 cell line^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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