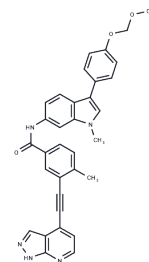


LDR102

## Chemical Properties

CAS No. : 3053223-31-4  
 Formula: C<sub>33</sub>H<sub>27</sub>N<sub>5</sub>O<sub>3</sub>  
 Molecular Weight: 541.6  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	LDR102 (Compound 19h) is an inhibitor of receptor tyrosine kinase-like orphan receptor 1 (ROR1) with a $K_i$ value of 0.10 $\mu$ M. LDR102 inhibits the proliferation of the cancer cell lines H1975, A549, and MDA-MB-231, with $IC_{50}$ values of 0.36 $\mu$ M, 1.37 $\mu$ M, and 0.47 $\mu$ M, respectively. LDR102 has demonstrated antitumor activity in mouse models and exhibits favorable pharmacokinetic properties in rats.
Targets( $IC_{50}$ )	ROR

## Solubility Information

Solubility DMSO: 80 mg/mL (147.71 mM), Sonication is recommended.  
 (< 1 mg/ml refers to the product slightly soluble or insoluble)

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8464 mL	9.2319 mL	18.4638 mL
5 mM	0.3693 mL	1.8464 mL	3.6928 mL
10 mM	0.1846 mL	0.9232 mL	1.8464 mL
50 mM	0.0369 mL	0.1846 mL	0.3693 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Luo D, et al. Discovery of Novel Receptor Tyrosine Kinase-like Orphan Receptor 1 (ROR1) Inhibitors for Cancer Treatment. *J Med Chem.* 2024;67(13):10655-10686.

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