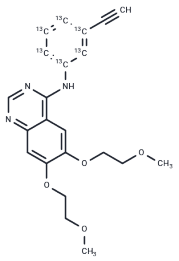
Data Sheet (Cat.No.T35915)

TargetMol

Erlotinib-13C6

Chemical Properties



CAS No. : 1211107-68-4

Formula: C22H23N3O4

Molecular Weight: 399.397

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	Erlotinib-13C6 is a 13C-labeled Erlotinib. Erlotinib (T0373) is a directly acting EGFR tyrosine kinase inhibitor, with an IC50 of 2 nM for human EGFR[1].
Targets(IC50)	EGFR,Autophagy
In vitro	Erlotinib effectively diminishes EGFR autophosphorylation in intact tumor cells, presenting an IC50 value of 20 nM, and is employed in treating non-small cell lung cancer[1]. Additionally, stable heavy isotopes of hydrogen, carbon, and other elements are integrated into drug molecules, primarily serving as tracers for quantification throughout drug development[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5038 mL	12.5188 mL	25.0376 mL
5 mM	0.5008 mL	2.5038 mL	5.0075 mL
10 mM	0.2504 mL	1.2519 mL	2.5038 mL
50 mM	0.0501 mL	0.2504 mL	0.5008 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

Moyer JD, et al. Induction of apoptosis and cell cycle arrest by CP-358,774, an inhibitor of epidermal growth factor receptor tyrosine kinase. Cancer Res. 1997, 57(21), 4838-4848.

Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

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