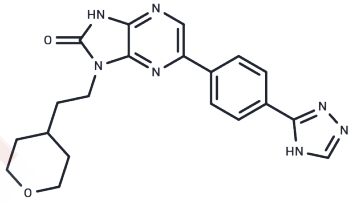
Data Sheet (Cat.No.T9314)

TargetMol

CC214-1

Chemical Properties



CAS No. : 1021920-32-0

Formula: C20H21N7O2

Molecular Weight: 391.43

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	CC214-1 is an mTOR inhibitor with potential anticancer activity, inhibits protein translation, and induces autophagy. CC214-1 is an in vitro tool compound for exploring the biology of mTOR kinases and can be used to study myeloma.
Targets(IC50)	Autophagy,mTOR
In vitro	CC214-1 (0,0.1,1,2,5,10 μM, 8h; 2μM, 24h)Inhibited mTORC1 signaling in all glioblastoma cell lines tested, potently suppressing rapamycin-resistant 4E-BP1 and mTORC2 signaling[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5547 mL	12.7737 mL	25.5474 mL
5 mM	0.5109 mL	2.5547 mL	5.1095 mL
10 mM	0.2555 mL	1.2774 mL	2.5547 mL
50 mM	0.0511 mL	0.2555 mL	0.5109 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

Gini B, et al. The mTOR kinase inhibitors, CC214-1 and CC214-2, preferentially block the growth of EGFRvIII-activated glioblastomas. Clin Cancer Res. 2013 Oct 15;19(20):5722-32.

Mortensen DS, et al. Use of core modification in the discovery of CC214-2, an orally available, selective inhibitor of mTOR kinase. Bioorg Med Chem Lett. 2013 Mar 15;23(6):1588-91.

Herrero-Sánchez MC, et al. Effect of mTORC1/mTORC2 inhibition on T cell function: potential role in graft-versus-host disease control. Br J Haematol. 2016 Jun;173(5):754-68.

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