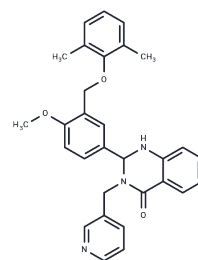


NCGC00229600

Chemical Properties

CAS No. : 1338824-20-6
 Formula: C30H29N3O3
 Molecular Weight: 479.57
 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	NCGC00229600 is an allosteric inverse thyrotropin receptor (TSHR) agonist. NCGC00229600 inhibits both TSH and stimulating antibody activation of TSHRs endogenously and can be used in Graves' disease studies.
Targets(IC50)	TSH Receptor

Solubility Information

Solubility	DMSO: 40 mg/mL (83.41 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (4.17 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0852 mL	10.426 mL	20.852 mL
5 mM	0.417 mL	2.0852 mL	4.1704 mL
10 mM	0.2085 mL	1.0426 mL	2.0852 mL
50 mM	0.0417 mL	0.2085 mL	0.417 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

Neumann S, et al. A new small-molecule antagonist inhibits Graves' disease antibody activation of the TSH receptor. J Clin Endocrinol Metab. 2011 Feb;96(2):548-54.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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