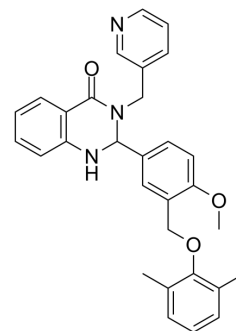


## NCGC00229600

<b>Cat. No.:</b>	HY-18286		
<b>CAS No.:</b>	1338824-20-6		
<b>Molecular Formula:</b>	C <sub>30</sub> H <sub>29</sub> N <sub>3</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	479.57		
<b>Target:</b>	TSH Receptor		
<b>Pathway:</b>	GPCR/G Protein		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (104.26 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM		2.0852 mL	10.4260 mL	20.8520 mL
		5 mM		0.4170 mL	2.0852 mL	4.1704 mL
10 mM			0.2085 mL	1.0426 mL	2.0852 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.21 mM); Suspended solution; Need ultrasonic  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.21 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	NCGC00229600 is an allosteric inverse agonist of thyrotropin receptor (TSHR). NCGC00229600 inhibits both TSH and stimulating antibody activation of TSHRs endogenously expressed in Graves' disease <sup>[1]</sup> .
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### REFERENCES

[1]. 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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA