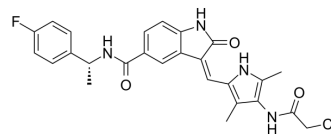


CCG273441

Cat. No.:	HY-47573		
CAS No.:	2750414-35-6		
Molecular Formula:	C ₂₆ H ₂₄ ClFN ₄ O ₃		
Molecular Weight:	494.95		
Target:	G Protein-coupled Receptor Kinase (GRK)		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (101.02 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.0204 mL	10.1020 mL	20.2041 mL
5 mM	0.4041 mL	2.0204 mL	4.0408 mL
10 mM	0.2020 mL	1.0102 mL	2.0204 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

CCG273441 is a covalent inhibitor of G protein-coupled receptor (GPCR) kinase 5 (GRK5) with an IC₅₀ value of 3.8 nM. CCG273441 is highly selective to GRK5 over GRK2 (IC₅₀=4.8 μM) by binding Cys474, a GRK5 subfamily-specific residue, as a covalent handle^[1].

IC₅₀ & Target

IC₅₀: 3.8 nM (human GRK5), 19 nM (GRK5-C474S), 4.8 μM (bovine GRK2)^[1]

In Vitro

Human GRKs (GRK1–GRK7) are classified into three subfamilies: GRK1 (GRK1 and GRK7), GRK2 (GRK2 and GRK3), and GRK4 (GRK4, GRK5, and GRK6)^[1]. CCG273441 (compound 9j) shows moderate potency (GRK5 IC₅₀=3.8 nM) but 1000-fold selectivity over GRK2 (IC₅₀=4.8 μM)^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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