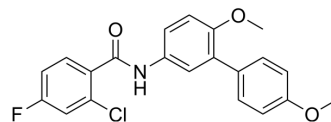


## DG70

Cat. No.:	HY-111086		
CAS No.:	930470-97-6		
Molecular Formula:	C <sub>21</sub> H <sub>17</sub> ClFNO <sub>3</sub>		
Molecular Weight:	385.82		
Target:	Bacterial		
Pathway:	Anti-infection		
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 (129.59 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.5919 mL	12.9594 mL	25.9188 mL
		5 mM	0.5184 mL	2.5919 mL	5.1838 mL
10 mM		0.2592 mL	1.2959 mL	2.5919 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (3.24 mM); Clear solution				

## BIOLOGICAL ACTIVITY

Description	DG70 (GSK1733953A), a biphenyl amide, is a respiration inhibitor in Mycobacterium tuberculosis, inhibits MenG activity with an IC <sub>50</sub> value of 2.6 ± 0.6 μM. DG70 inhibits the catalytic methylation of Mycobacterium tuberculosis demethylmenaquinone methyltransferase enzymes. DG70 can be used for Tuberculosis (TB) research <sup>[1][2][3]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 2.6 ± 0.6 μM (MenG) <sup>[1]</sup>

## REFERENCES

[1]. Pujari V, et al. Mycobacterial MenG: Partial Purification, Characterization, and Inhibition. ACS Infect Dis. 2022 Dec 9;8(12):2430-2440.

[2]. Adewumi AT, et al. Thompson loop: opportunities for antitubercular drug design by targeting the weak spot in demethylmenaquinone methyltransferase protein. RSC

[3]. Sukheja P, et al. A Novel Small-Molecule Inhibitor of the Mycobacterium tuberculosis Demethylmenaquinone Methyltransferase MenG Is Bactericidal to Both Growing and Nutritionally Deprived Persister Cells. mBio. 2017 Feb 14;8(1):e02022-16.

---

**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