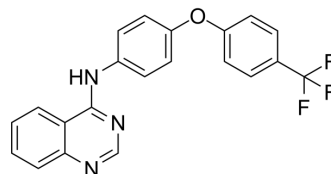


ND-011992

Cat. No.:	HY-155107
CAS No.:	2446880-46-0
Molecular Formula:	C ₂₁ H ₁₄ F ₃ N ₃ O
Molecular Weight:	381.35
Target:	Mitochondrial Metabolism; Bacterial
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 40 mg/mL (104.89 mM); ultrasonic and adjust pH to 4 with 1 M HCL						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.6223 mL	13.1113 mL	26.2226 mL
				5 mM	0.5245 mL	2.6223 mL	5.2445 mL
				10 mM	0.2622 mL	1.3111 mL	2.6223 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.56 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.56 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	ND-011992 is a reversible, selective quinazoline-type inhibitor targeting quinone reductases and quinol oxidases. ND-011992 inhibits respiratory complex I and bo ₃ oxidase in addition to bd-I and bd-II oxidases in E. coli strain BL21*Δcyo with the IC ₅₀ of 0.12, 2.47, 0.63 and 1.3 μM, respectively. ND-011992 can be used for tuberculosis study ^[1] .
IC ₅₀ & Target	0.12 μM (respiratory complex I), 2.47 μM (bo ₃ oxidase), 0.63 (bd-I oxidases), 1.3 μM (bd-II oxidases)
In Vitro	ND-011992 inhibits NADH oxidase activity of membranes from bovine heart mitochondria with an IC ₅₀ of 3.27 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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

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