

ND-011992

Chemical Properties

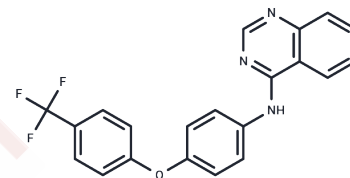
CAS No. : 2446880-46-0

Formula: C₂₁H₁₄F₃N₃O

Molecular Weight: 381.35

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	ND-011992 is a reversible and selective quinazoline inhibitor targeting quinone reductases and quinol oxidases. ND-011992 inhibits E. coli BL21*Δcyo respiratory complex I. ND-011992 inhibits bo3 oxidase, bd-I oxidases and bd-II oxidases, ND-011992 inhibits E. coli BL21*Δcyo respiratory complex I, bo3 oxidase, bd-I oxidases, and bd-II oxidases with IC ₅₀ s of 0.12, 2.47, 0.63, and 1.3 μM, respectively. ND-011992 can be used in the study of tuberculosis.
Targets(IC ₅₀)	Mitochondrial Metabolism, Antibacterial
In vitro	ND-011992 inhibits bovine heart mitochondrial membrane NADH oxidase activity with an IC ₅₀ of 3.27 μM.[1]

Solubility Information

Solubility	DMSO: 60 mg/mL (157.34 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.24 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	2.6223 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
50 mM	0.0524 mL	0.2622 mL	0.5245 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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