

## NQO1 substrate

## Chemical Properties

CAS No. : 2304503-05-5

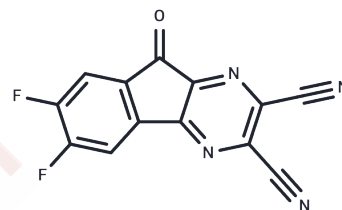
Formula: C<sub>13</sub>H<sub>2</sub>F<sub>2</sub>N<sub>4</sub>O

Molecular Weight: 268.18

Store at low temperature

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	NQO1 substrate is a highly potent NQO1 substrate with potential antitumor activity for leukemia research.
Targets(IC50)	Others,Reductase,NADPH

## Solubility Information

Solubility	DMSO: 100 mg/mL (372.88 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: 5 mg/mL (18.64 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	3.7288 mL	18.6442 mL	37.2884 mL
5 mM	0.7458 mL	3.7288 mL	7.4577 mL
10 mM	0.3729 mL	1.8644 mL	3.7288 mL
50 mM	0.0746 mL	0.3729 mL	0.7458 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.

Reference

Wu X, et al. Discovery of Nonquinone Substrates for NAD(P)H: Quinone Oxidoreductase 1 (NQO1) as Effective Intracellular ROS Generators for the Treatment of Drug-Resistant Non-Small-Cell Lung Cancer. J Med Chem. 2018 Dec 27;61(24):11280-11297.

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