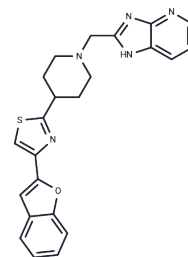


BAY-179

## Chemical Properties

CAS No. : 2764880-87-5  
 Formula: C<sub>23</sub>H<sub>21</sub>N<sub>5</sub>O<sub>5</sub>  
 Molecular Weight: 415.51  
 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	BAY-179 is a potent, selective, and species cross-reactive complex I inhibitor used for cancer research.
Targets(IC50)	Mitochondrial Metabolism

## Solubility Information

Solubility	DMSO: 41.55 mg/mL (100 mM), Sonication and heating are 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 (4.81 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	2.4067 mL	12.0334 mL	24.0668 mL
5 mM	0.4813 mL	2.4067 mL	4.8134 mL
10 mM	0.2407 mL	1.2033 mL	2.4067 mL
50 mM	0.0481 mL	0.2407 mL	0.4813 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

Mowat J, et al. Identification of the Highly Active, Species Cross-Reactive Complex I Inhibitor BAY-179. ACS Med Chem Lett. 2022 Feb 18;13(3):348-357.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481