

CAY10678

## Chemical Properties

CAS No. : 1268709-57-4

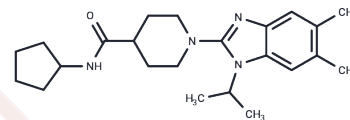
Formula: C<sub>23</sub>H<sub>34</sub>N<sub>4</sub>O

Molecular Weight: 382.54

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	CAY10678 is an mPGES-1 inhibitor that inhibits PD-1. CAY10678 reduces collagen deposition and T-cell depletion, and may be used to study melanoma. CASHIPS
Targets(IC50)	PD-1/PD-L1, PGE Synthase, Prostaglandin Receptor

## Solubility Information

Solubility	DMSO: 1 mg/mL (2.61 mM), Sonication is recommended. Ethanol: PBS (pH 7.2) (1:8): 0.1 mg/mL (0.26 mM), Sonication is recommended. Ethanol: 10 mg/mL (26.14 mM), Sonication is recommended. DMF: 8 mg/mL (20.91 mM), Sonication is recommended. H <sub>2</sub> O: < 0.1 mg/mL (insoluble.) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.61 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

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	1mg	5mg	10mg
1 mM	2.6141 mL	13.0705 mL	26.1411 mL
5 mM	0.5228 mL	2.6141 mL	5.2282 mL
10 mM	0.2614 mL	1.3071 mL	2.6141 mL
50 mM	0.0523 mL	0.2614 mL	0.5228 mL

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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

Fukuda Y, et al. Inhibition of Microsomal Prostaglandin E2 Synthase Reduces Collagen Deposition in Melanoma Tumors and May Improve Immunotherapy Efficacy by Reducing T-cell Exhaustion. *Cancer Res Commun.* 2023 Jul 31;3(7):1397-1408.

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