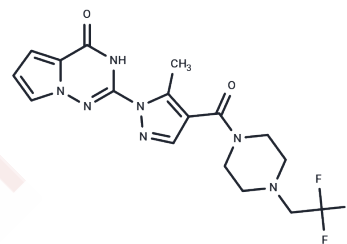


QM385

## Chemical Properties

CAS No. : 2093421-02-2  
 Formula: C17H18F3N7O2  
 Molecular Weight: 409.37  
 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	QM385 is a potent inhibitor of sepiapterin reductase (SPR)(IC50 of 1.49 nM).
Targets(IC50)	Others, Reactive Oxygen Species
In vitro	QM385 effectively inhibits the proliferation of human CD4+ T cells at low doses. <sup>1</sup>

## Solubility Information

Solubility	DMSO: 125 mg/mL (305.35 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (8.06 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	2.4428 mL	12.2139 mL	24.4278 mL
5 mM	0.4886 mL	2.4428 mL	4.8856 mL
10 mM	0.2443 mL	1.2214 mL	2.4428 mL
50 mM	0.0489 mL	0.2443 mL	0.4886 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

Cronin SJF, et al. The metabolite BH4 controls T cell proliferation in autoimmunity and cancer. Nature. 2018 Nov; 563(7732):564-568.

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