

RVX-297

## Chemical Properties

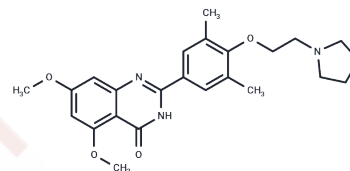
CAS No. : 1044871-04-6

Formula: C<sub>24</sub>H<sub>29</sub>N<sub>3</sub>O<sub>4</sub>

Molecular Weight: 423.5

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	RVX-297 is a BD2 selective inhibitor of BET bromodomains. RVX-297 preferentially binds to the BD2 domains of the BET bromodomain and Extra Terminal (BET) family of protein.
Targets(IC50)	Epigenetic Reader Domain
In vitro	RVX-297 suppressed IL-6 gene induction in human U937 macrophages, mouse primary B cells isolated from the spleen, mouse BMDMs, and THP-1 monocytes in a dose-dependent manner[2].
In vivo	In the rCIA model, RVX-297 treatment had a substantial impact on cytokine gene expression; expressions of IL-1 $\beta$ , RANKL, MMP3, and MMP13 were all significantly decreased in the ankle joints of arthritic rats after RVX-297 treatment at 75 mg/kg BID versus vehicle-treated arthritic controls[2].

## Solubility Information

Solubility	DMSO: 40 mg/mL (94.45 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 (4.72 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.3613 mL	11.8064 mL	23.6128 mL
5 mM	0.4723 mL	2.3613 mL	4.7226 mL
10 mM	0.2361 mL	1.1806 mL	2.3613 mL
50 mM	0.0472 mL	0.2361 mL	0.4723 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

Kharenko OA, et al. RVX-297- a novel BD2 selective inhibitor of BET bromodomains. Biochem Biophys Res Commun. 2016 Aug 12;477(1):62-7.

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