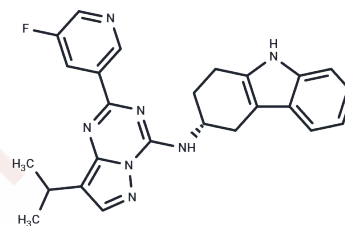


AHR antagonist 5 free base

Chemical Properties

CAS No. :	2247950-42-9
Formula:	C ₂₅ H ₂₄ FN ₇
Molecular Weight:	441.5
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	AHR antagonist 5 free base is an orally active AHR antagonist with IC ₅₀ of approximately 35-150 nM in human and rodent cell lines, and exhibits anticancer activity.
Targets(IC ₅₀)	Aryl Hydrocarbon Receptor
In vitro	AHR antagonist 5 free base induces an activated human T cell state and inhibits CYP1A1 and interleukin (IL)-22 gene expression. AHR antagonist 5 increases pro-inflammatory cytokines, such as IL-2 and IL-9[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (113.25 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (5.66 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	2.265 mL	11.325 mL	22.6501 mL
5 mM	0.453 mL	2.265 mL	4.530 mL
10 mM	0.2265 mL	1.1325 mL	2.265 mL
50 mM	0.0453 mL	0.2265 mL	0.453 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

Marta Sanchez-Martin, et al. Ahr inhibitors and uses thereof. WO2021142180A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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