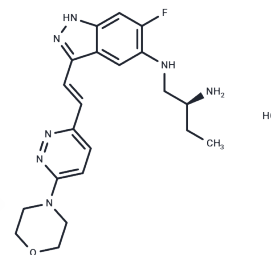


YE6144

Chemical Properties

CAS No. :	3065657-02-2
Formula:	C ₂₁ H ₂₇ ClFN ₇ O
Molecular Weight:	447.94
Storage:	Store at low temperature 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	YE6144 is a prototype IRF5 inhibitor that selectively blocks IRF5 phosphorylation. YE6144 can also inhibit the production of type 1 IFNs (IC ₅₀ = 0.09 μM).
Targets(IC ₅₀)	Others, IFNAR
In vitro	Methods: Human HC PBMC and mouse WT splenocytes were treated with YE6144 (1 μM and 3 μM, 30 minutes), and protein expression was detected by Western blotting. Results: YE6144 inhibited the phosphorylation of IRF5 in the above cells. [1]
In vivo	Methods: YE6144 (40 mg/kg, subcutaneous injection, single dose) was used to treat NZB/W F1 mice with systemic lupus erythematosus (SLE) and its effects were observed. Results: YE6144 was able to inhibit the progression of autoantibody production in mice. Post-onset treatment also inhibited splenomegaly and renal insufficiency. [1]

Solubility Information

Solubility	DMSO: 55 mg/mL (122.78 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: 10 mg/mL (22.32 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	2.2324 mL	11.1622 mL	22.3244 mL
5 mM	0.4465 mL	2.2324 mL	4.4649 mL
10 mM	0.2232 mL	1.1162 mL	2.2324 mL
50 mM	0.0446 mL	0.2232 mL	0.4465 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

Ban T, et al. Genetic and chemical inhibition of IRF5 suppresses pre-existing mouse lupus-like disease. Nat Commun. 2021 Jul 19;12(1):4379.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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