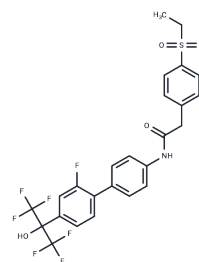


XY101

Chemical Properties

CAS No. : 2349368-16-5
 Formula: C₂₅H₂₀F₇N₂O₄S
 Molecular Weight: 563.48
 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	XY101 is a selective, metabolically stable and orally available agonist of ROR γ inverse (IC ₅₀ of 30 nM and a K _d of 380 nM).
Targets(IC ₅₀)	ROR
In vitro	XY101 effectively inhibits cell growth, colony formation and expression of androgen receptor (AR), AR-V7 and prostate specific antigen (PSA)[1].
In vivo	XY101 demonstrates substantial antitumor effects, including inhibition of tumor growth, throughout the treatment period and is well-tolerated, evidenced by the absence of significant body weight loss[1].

Solubility Information

Solubility	DMSO: 225 mg/mL (399.3 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: 5 mg/mL (8.87 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	1.7747 mL	8.8734 mL	17.7469 mL
5 mM	0.3549 mL	1.7747 mL	3.5494 mL
10 mM	0.1775 mL	0.8873 mL	1.7747 mL
50 mM	0.0355 mL	0.1775 mL	0.3549 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

ng Y, et al. Discovery and Characterization of XY101, a Potent, Selective, and Orally Bioavailable ROR γ Inverse Agonist for Treatment of Castration-Resistant Prostate Cancer. *J Med Chem.* 2019 May 9;62(9):4716-4730.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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