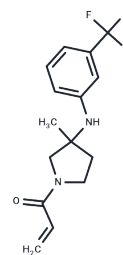


MYF-01-37

Chemical Properties

CAS No. : 2416417-65-5
 Formula: C₁₅H₁₇F₃N₂O
 Molecular Weight: 298.3
 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	MYF-01-37 (1-[3-Methyl-3-[3-(trifluoromethyl)anilino]pyrrolidin-1-yl]prop-2-en-1-one) is a novel covalent TEAD inhibitor.
Targets(IC50)	YAP
In vitro	Pretreating cells with MYF-01-37 led to loss of direct TEAD pull-down by biotin-MYF-01-037 from whole-cell lysate, confirming MYF-01-037 binding to TEAD in cells. This target engagement of TEAD resulted in inhibition of direct YAP/TEAD interaction in HEK 293T cells, and in the reduction in canonical YAP target gene CTGF expression in PC-9 cells. This reduction was abrogated by the overexpression of TEAD1 C359S mutant that disrupts the covalent binding of the drug to TEAD, but not by overexpression of wild-type TEAD1, demonstrating that the observed inhibition of YAP activity is due to on-target covalent binding of the compound to TEAD.

Solubility Information

Solubility	DMSO: 55 mg/mL (184.38 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 (6.7 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	3.3523 mL	16.7616 mL	33.5233 mL
5 mM	0.6705 mL	3.3523 mL	6.7047 mL
10 mM	0.3352 mL	1.6762 mL	3.3523 mL
50 mM	0.067 mL	0.3352 mL	0.6705 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

Kurppa K J , Liu Y , To C , et al. Treatment-Induced Tumor Dormancy through YAP-Mediated Transcriptional Reprogramming of the Apoptotic Pathway[J]. Cancer Cell, 2020, 37(1):104-122.e12.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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