

MC-1-F2

## Chemical Properties

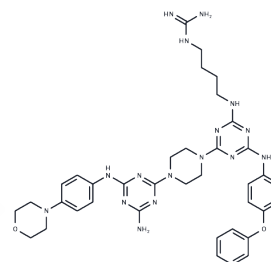
CAS No. : 2376894-10-7

Formula: C37H46N16O2

Molecular Weight: 746.87

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	MC-1-F2 is a direct FOXC2 inhibitor with anticancer activity, inhibits cancer stem cell (CSC) characteristics, and reduces the invasive ability of castration-resistant prostate cancer (CRPC) cell lines. MC-1-F2 can be used to study prostate cancer.
Targets(IC50)	Others,c-Myc,Cadherin
In vitro	In PC3 or DU145 cell lines after treatment with DMSO (D), MC-1-F2 (F2, 20 μM) or MC-C2 (C, 20 μM) for 48 hours. A clear decrease in FOXC2 protein level upon 48-hour treatment with MC-1-F2. [1]

## Solubility Information

Solubility	DMSO: 80 mg/mL (107.11 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: 3.3 mg/mL (4.42 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	1.3389 mL	6.6946 mL	13.3892 mL
5 mM	0.2678 mL	1.3389 mL	2.6778 mL
10 mM	0.1339 mL	0.6695 mL	1.3389 mL
50 mM	0.0268 mL	0.1339 mL	0.2678 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

Castaneda M, et al. A FOXC2 inhibitor, MC-1-F2, as a therapeutic candidate for targeting EMT in castration-resistant prostate cancer. *Bioorg Med Chem Lett*. 2023 Jul 15;91:129369.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481