

MK-0773

## Chemical Properties

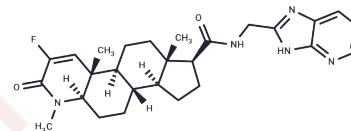
CAS No. : 606101-58-0

Formula: C<sub>27</sub>H<sub>34</sub>FN<sub>5</sub>O<sub>2</sub>

Molecular Weight: 479.59

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	MK-0773 (PF-05314882) is a selective androgen receptor modulator that binds to AR (IC <sub>50</sub> : 6.6 nM) for the study of diseases caused by endocrine abnormalities.
Targets(IC <sub>50</sub> )	Androgen Receptor
In vitro	The affinity of MK-0773 for AR across species can be evaluated using COS cells transfected with AR, with respective IC <sub>50</sub> values as follows: rat, 0.50 nM; dog, 0.55 nM; rhesus, 0.45 nM; human, 0.65 nM[1].
In vivo	Treatment of OVX rats with MK-0773 (5 mg/kg, 25 mg/kg), 2-FPA, TFM-4AS-1, and DHT for 24 days resulted in a decrease in total cholesterol and high-density lipoprotein by 25-37%[1].

## Solubility Information

Solubility	DMSO: 20 mg/mL (41.7 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 (4.17 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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	1mg	5mg	10mg
1 mM	2.0851 mL	10.4256 mL	20.8511 mL
5 mM	0.417 mL	2.0851 mL	4.1702 mL
10 mM	0.2085 mL	1.0426 mL	2.0851 mL
50 mM	0.0417 mL	0.2085 mL	0.417 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

Schmidt A, et al. Discovery of the selective androgen receptor modulator MK-0773 using a rational development strategy based on differential transcriptional requirements for androgenic anabolism versus reproductive physiology. *J Biol Chem.* 2010 May 28;285

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