

RS 61443

## Chemical Properties

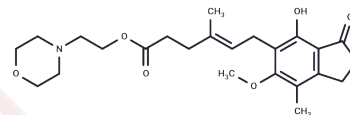
CAS No. : 115007-34-6

Formula: C<sub>23</sub>H<sub>31</sub>N<sub>3</sub>O<sub>7</sub>

Molecular Weight: 433.5

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	RS 61443 (Mycophenolate mofetil) is an immunosuppressant, a non-competitive, selective and reversible inhibitor of inosine monophosphate dehydrogenase (IMPDH)
Targets(IC50)	Dehydrogenase
In vitro	Mycophenolate mofetil (MMF) is a relatively new systemic immunosuppressive agent whose use is rapidly increasing within the field of dermatologic. Originally used in the 1970s for the treatment of psoriasis, MMF has demonstrated efficacy in multiple types of inflammatory skin diseases. Although the safety data within the dermatologic literature is sparse, MMF's extensive use within the field of organ transplantation has demonstrated a favorable safety profile. MMF's lack of hepatic or renal toxicity is a significant advantage over immunosuppressive medications currently used in dermatology and make MMF an attractive candidate for multidrug regimens.

## Solubility Information

Solubility	1M NAOH: 127.5 mg/mL (294.12 mM),Sonication is recommended. DMSO: 257.5 mg/mL (594 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (23.07 mM),Suspension. <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	2.3068 mL	11.534 mL	23.0681 mL
5 mM	0.4614 mL	2.3068 mL	4.6136 mL
10 mM	0.2307 mL	1.1534 mL	2.3068 mL
50 mM	0.0461 mL	0.2307 mL	0.4614 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

Zwerner J , Fiorentino D . Mycophenolate mofetil[J]. Dermatologic Therapy, 2010, 20(4):229-238.

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