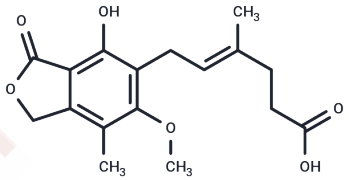
Data Sheet (Cat.No.T1335)

TargetMol

Mycophenolic acid

Chemical Properties



CAS No. : 24280-93-1

Formula: C17H20O6

Molecular Weight: 320.34

Storage: Store at low temperature,Keep away from moisture
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	Mycophenolic acid (Mycophenolate) is an inosine monophosphate dehydrogenase (IMPDH) inhibitor with anti-proliferative activity.
Targets(IC50)	Apoptosis,Anti-infection,Endogenous Metabolite,Antibacterial,Antibiotic,Antifungal, Dehydrogenase,UGT
In vitro	In murine models, Mycophenolic acid selectively inhibits lymphocyte proliferation, cellular-mediated immune responses, and humoral immune responses.
In vivo	In cultured human, mouse, and rat T lymphocytes and B lymphocytes, Mycophenolic acid inhibits mitogen-induced proliferative responses. Mycophenolic acid can also induce apoptosis in activated CD4+ T cells.

Solubility Information

Solubility	DMSO: 125 mg/mL (390.21 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 (31.22 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (31.22 mM),Solution. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1217 mL	15.6084 mL	31.2168 mL
5 mM	0.6243 mL	3.1217 mL	6.2434 mL
10 mM	0.3122 mL	1.5608 mL	3.1217 mL
50 mM	0.0624 mL	0.3122 mL	0.6243 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

Sintchak MD, et al. Cell, 1996, 85(6), 921-930.
Zeng X, Zhu S, Lu W, et al. Target identification among known drugs by deep learning from heterogeneous networks. Chemical Science. 2020, 11(7): 1775-1797.
Hu M, Wu T, Yang Y, et al. Development and Characterization of a Genetically Stable Infectious Clone for a Genotype I Isolate of Dengue Virus Serotype 1. Viruses. 2022, 14(9): 2073.
Eugui EM, et al. Scand J Immunol, 1991, 33(2), 161-173.
Anderson D, et al. Mutat Res, 1995, 330(1-2), 115-181.
Hu M, Li W F, Wu T, et al.Identification of an Arylnaphthalene Lignan Derivative as an Inhibitor against Dengue Virus Serotypes 1 to 4 (DENV-1 to-4) Using a Newly Developed DENV-3 Infectious Clone and Replicon.Microbiology Spectrum.2023: e00423-23.
Zheng M, Li J, Guo H, et al.IMPDH inhibitors upregulate PD-L1 in cancer cells without impairing immune checkpoint inhibitor efficacy.Acta Pharmacologica Sinica.2024: 1-10.
Chapuis AG, et al. Nat Med, 2000, 6(7), 762-768.
Zeng X, Zhu S, Lu W, et al. Target identification among known drugs by deep learning from heterogeneous networks[J]. Chemical Science. 2020, 11(7): 1775-1797.