

Mycophenolic acid

Catalog No: tcsc2527



Available Sizes

Size: 100mg

Size: 500mg

Size: 1g



Specifications

CAS No:

24280-93-1

Formula:

$C_{17}H_{20}O_6$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 100 mg/mL (312.17 mM); H₂O :

Alternative Names:

Mycophenolate;RS-61443

Observed Molecular Weight:

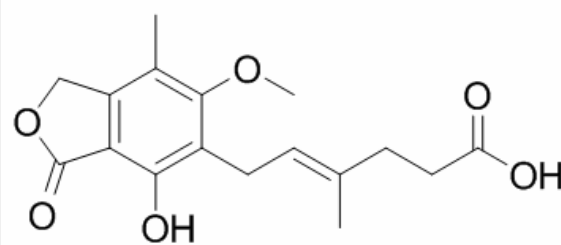
320.34

Product Description

Mycophenolic acid is an immunosuppressant drug and has potent anti-proliferative activity.

Target: Others

Mycophenolic acid (MPA) is an immunosuppressant drug used to prevent rejection in organ transplantation. It inhibits an enzyme needed for the growth of T cells and B cells. MPA did not block the initial phase of viral translation but did interfere with viral protein synthesis in the amplification phase. Quantitative RT-PCR demonstrated that MPA prevented the accumulation of viral positive- and negative-strand RNA as the infection proceeded. MPA inhibits flavivirus infection by preventing synthesis and accumulation of viral RNA [1]. The effects of mycophenolic acid (MPA) on DEN replication in monkey kidney (LLC-MK2) cells were examined. MPA (IC₅₀)=0.4±0.3 µM inhibited DEN2 replication. Quantitative real-time RT-PCR of viral RNA and plaque assays of virions from DEN2-infected and MPA (10 µM) -treated cells showed a fivefold increase in defective viral RNA production by cells treated with each drug, suggesting that one mode of antiviral action of MPA is by inhibition of inosine monophosphate dehydrogenase and thereby depletion of the intracellular GTP pool [2].



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