

Mycophenolate Mofetil

Catalog No: tcsc2135



Available Sizes

Size: 100mg

Size: 200mg

Size: 500mg

Size: 1g

Size: 5g



Specifications

CAS No:

128794-94-5

Formula:

$C_{23}H_{31}NO_7$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 100 mg/mL (230.69 mM)

Alternative Names:

RS 61443;TM-MMF

Observed Molecular Weight:

433.49

Product Description

Mycophenolate Mofetil(RS 61443) is a non-competitive, selective and reversible inhibitor of inosine monophosphate dehydrogenase I/II with IC50 of 39 nM and 27 nM, respectively.

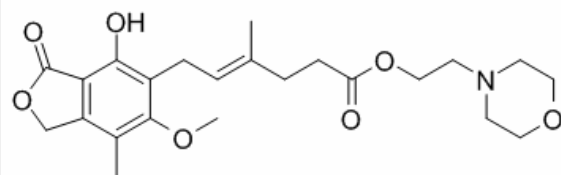
IC50 value: 39 nM/27 nM (IMPDH1/2)

Target: Inosine monophosphate dehydrogenase (IMPDH)

Mycophenolate mofetil is an ester prodrug of the active immunosuppressant mycophenolic acid (MPA). The latter shows a noncompetitive, selective and reversible inhibition activity against inosine monophosphate dehydrogenase type I/II with IC50 of 39 nM and 27 nM, respectively. Moreover, MPA also produces the concentration-dependent inhibition of proliferation of ConA-stimulated T cells, LPS-stimulated B cells and alloantigen-specific T cells with IC50 of 100 nM, 120 nM, and 51 nM, respectively [1].

Mycophenolate mofetil with high concentration of 10 µg/mL induces a strong apoptosis in microglial cell cultures and increases the number of activated caspase-3 immunoreactive apoptotic cells. In addition, Mycophenolate mofetil (1 µg/mL) strongly inhibits proliferation of both microglial cells and astrocytes [2].

In bleomycin (BLM)-induced scleroderma mouse model, Mycophenolate mofetil reduces inflammatory-cell infiltration, tissue hydroxyproline content and dermal thickness [3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!