Store at RT

Mycophenolic Acid



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50 mg

For Research Use Only. Not for Use in Diagnostic Procedures.

Background Mycophenolic Acid, also referred to as MPA, is a potent inhibitor of the enzyme inosine 5'-

monophosphate dehydrogenase (IMPDH), a key molecule in the biosynthesis of guanine nucleotides. This inhibition leads to suppression of pro-inflammatory cytokines, nitric oxide, and LDH in macrophages (1). Mycophenolic Acid has been shown to inhibit the reproduction of the Middle East respiratory syndrome coronavirus (MERS-CoV) with an IC $_{50}$ of 2.87 μ M (2). Clinically, Mycophenolic Acid has been used as an anti-rejection immunosuppressant medication for kidney and liver transplant

patients (3,4).

Molecular Formula C₁₇H₂₀O₆
Molecular Weight 320.3 g/mol

Purity >98%

CAS 24280-93-1

Solubility Soluble in DMSO at 30 mg/ml or ethanol at 30 mg/ml.

Storage Store lyophilized at room temperature, desiccated. In lyophilized form, the chemical is stable for 24

months. Once in solution, store at -20°C and use within 3 months to prevent loss of potency. Aliquot to

avoid multiple freeze/thaw cycles.

Directions for Use Mycophenolic Acid is supplied as a lyophilized powder. For a 15 mM stock, reconstitute 5 mg of powder

in 1.04 ml of DMSO. Working concentrations and length of treatment can vary depending on the

desired effect.

Background References 1. Jonsson, C.A. and Carlsten, H. *Cell Immunol* 216, 93-101.

2. Hart, B.J. et al. (2014) J Gen Virol 95, 571-7.

3. Chen, H. and Chen, B. (2014) World J Gastroenterol 20, 10715-28.

4. Zwart, T.C. et al. (2018) Br J Clin Pharmacol 84, 2889-902.

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