Mycophenolic acid (10 mM)

Cat.No.：PB180530

Size：1mL

Product Description

Mycophenolic acid (MPA), a class of antibiotics /antibacterial drugs derived from Penicillium stoloniferum and similar strains, can block the synthesis of purine nucleotides in vivo by inhibiting the action of hypoxanthine nucleotide dehydrogenase, preventing the division of T cells and lymphocytes and the formation of antibodies in B cells, thus having the function of immunosuppressive factor, and is used in molecular biology to screen cells containing xanthine guanine phosphoribosyltransferase gene. Mycophenolic acid is also a kind of potent non-competitive inhibitor of inosine monophosphate dehydrogenase (IMPDH). In recent years, with the in-depth study of MPA, people found that MPA showed a variety of new pharmacological effects. Studies have shown that MPA can inhibit the proliferation of tumor cells such as leukemia, lymphoma, pancreatic cancer, non-small cell lung cancer and colon cancer. In addition, it can also induce the differentiation or apoptosis of a variety of tumor cell lines including cervical cancer, breast cancer, prostate cancer, melanoma, leukemia and glioblastoma.

Form	Liquid
Concentration	10 mM
Type	1mL
Solvent	DMSO (100%)
Storage Conditions	-5~-20°C, Protect from light
Transport Conditions	Ice bag
Expiration Date	12 months

Notes

1. This reagent is a toxic compound, please do a good job of relevant protection during operation.
2. This product has been filtered and sterilized by 0.1 μm filter, can be used directly after melting.
3. When using this product, attention should be paid to aseptic operation to avoid pollution.
4. The product should be placed in 2-8°C thawed, shake well after use, repeated freezing and thawing is not recommended.
5. If there are precipitates after thawing, they can be vortexed and mixed evenly or blown with a pipette. After standing at room temperature for about 1 hour or at 37°C in an incubator for 20-30 minutes, observe whether the precipitates can be dissolved normally, and if they can be dissolved, it can be used normally.
6. This product is a concentrated liquid, please dilute it as needed.
7. It is recommended to use the regular at 2-8°C for preservation within one month. Long-term freezing preservation at -5~-20°C is not required, and long-term preservation at room temperature or 2-8°C is not suitable. In order to avoid repeated freezing and thawing, it is recommended to freeze preservation after subpackaging when the dosage is small.
8. This product is only for scientific research or further research use, not for diagnosis and treatment.