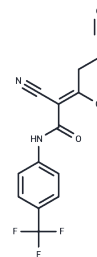


Manitimus

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 202057-76-9 |
| Formula: | C ₁₅ H ₁₁ F ₃ N ₂ O ₂ |
| Molecular Weight: | 308.26 |
| Storage: | Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|---------------|--|
| Description | Manitus (FK778) is an inhibitor of dehydroorotate dehydrogenase and an immunosuppressant with immunosuppressive and antiproliferative activity, prevents vascular remodeling after mechanical endothelial injury, and can be used to study immune dysfunction. |
| Targets(IC50) | Dehydrogenase |
| In vivo | Manitus (15 mg/kg, p.o.) results in a significant decrease in neointimal area and percentage of stenosis versus the control rats, and diminishes the effect that CMV infection results in a significant increase in intimal and medial cross-sectional area and medial wall thickness of the vein grafts[2]. In the Manitus-treated rats, there is a dose-related, differential effect: mean survival is 15.7 days in group 4 (Manitus 5 mg/kg), 19.1 days in group 5 (Manitus 10 mg/kg) and 25.4 days in group 6 (Manitus 20 mg/kg)[1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.244 mL | 16.2201 mL | 32.4401 mL |
| 5 mM | 0.6488 mL | 3.244 mL | 6.488 mL |
| 10 mM | 0.3244 mL | 1.622 mL | 3.244 mL |
| 50 mM | 0.0649 mL | 0.3244 mL | 0.6488 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

Birnbaum F, et al. The new malononitrilamide immunosuppressant FK778 prolongs corneal allograft survival in the rat keratoplasty model. *Eye (Lond)*. 2007 Dec;21(12):1516-23. Epub 2007 Mar 30.

Kloppenbun G, et al. FK778 attenuates cytomegalovirus-enhanced vein graft intimal hyperplasia in a rat model. *Intervirology*. 2009;52(4):189-95.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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