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| Product Name: | Mycophenolic Acid |
| Product Number: | M012 |
| CAS Number: | 24280-93-1 |
| Molecular Formula: | C ₁₇ H ₂₀ O ₆ |
| Molecular Weight: | 320.34 |
| Form: | Powder |
| Appearance: | White or off-white powder |
| Source: | <i>Penicillium stoloniferum</i> |
| Melting Point: | 138-142°C |
| Storage Conditions: | <30°C |
| Description: | <p>Mycophenolic acid is an immunosuppressant drug commonly used to prevent post-transplant organ rejection. Mycophenolic acid is freely soluble in methanol and insoluble in water.</p> <p>This product is considered a dangerous good. Quantities above 1 g may be subject to additional shipping fees. Please contact us for specific questions.</p> |
| Mechanism of Action: | Mycophenolic Acid blocks inosine monophosphate dehydrogenase in the guanosine monophosphate pathway and suppresses cytokine-induced nitric oxide production. |
| Cancer Applications | Mycophenolic acid acts as an inhibitor for inosine monophosphate dehydrogenase (IMPDH), an enzyme responsible for controlling the rate of guanine monophosphate synthesis. IMPDH is required for T-cell and B-cell growth and proliferation to a higher degree than other host cells. |
| Technical Data: | Allison, A. C. "Mycophenolate Mofetil and Its Mechanisms of Action." Immunopharmacology 47 (2000): 85-118. Ncbi.gov. May 2000. Web. 11 Sept. 2012. |