Product Name: Terrein

Product Number: T083

CAS Number: 582-46-7

Molecular Formula: C₈H₁₀O₃

Molecular Weight: 154.2

Appearance: Light tan solid

Storage Conditions: -20°C

Description: Terrein is a polar, substituted dihydrocyclopentenone first reported by Raistrick and colleagues in the 1930s and subsequently found in a number of Aspergillus and Penicillium species. Terrein is soluble in ethanol, methanol, DMF and DMSO.

Mechanism of Action: Recent research shows that terrein reduces melanin synthesis by reducing tyrosinase production via ERK activation, followed by MITF down-regulation. Terrein also reduces human keratinocyte proliferation by inhibiting ERK and by decreasing the expression of cyclin B1 and Cdc2 complex.

References:

