

1-O-Acetylbritannilactone, Anti-neuroinflammatory agent

Catalog	Unit
TBI4334-1MG	1 mg
TBI4334-5MG	5 mg

Product Details

Formal Name: [(4S)-4-[(3aS,4S,7aR)-4-Hydroxy-6-methyl-3-methylidene-2-oxo-3a,4,7,7a-tetrahydro-1-benzofuran-5-yl]pentyl] acetate

Alternate Name: Inulicin

Molecular Formula: C₁₇H₂₄O₅

Formula Weight: 308.4

CAS Number: 33627-41-7

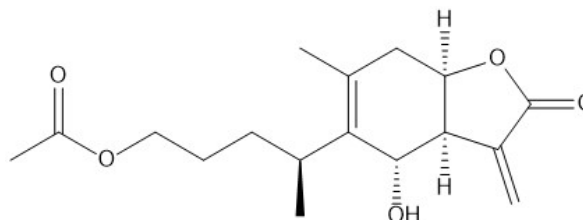
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (at least 25 mg/ml)

Storage: -20°C

Stability: ≥ 2 years



Applications

Anti-neuroinflammatory agent

Functions

1-O-Acetylbritannilactone is a natural product with anti-inflammatory and anti-allergic properties that is extracted from the flowers of *Inula japonica* and *Inula britannica*. It inhibits angiogenesis and lung cancer cell growth via regulation of VEGF signaling. 1-O-acetylbritannilactone suppressed microglial activation by regulating inflammation and autophagy to ameliorate LPS-mediated neuroinflammation via targeting of PDZ binding kinase (PBK).

Application Procedures

First dissolved in DMSO (at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.