

1-O-Acetyl britannilactone

Chemical Properties

CAS No.:	681457-46-5
Formula:	C ₁₇ H ₂₄ O ₅
Molecular Weight:	308.37
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	1-O-Acetyl britannilactone shows antifungal, and anti-cancer activities, it suppresses angiogenesis and lung cancer cell growth possibly via regulating the VEGFR-Src-FAK signaling.
Targets(IC ₅₀)	p65: None NF-κB: None COX: None
In vitro	The content of the compound ABL in flowers crude extract was tested with high performance liquid chromatography. The inhibitory effects of compound ABL against <i>Sphaerotheca fuliginea</i> , <i>Pseudoperonospora cubensis</i> , <i>Botrytis cinerea</i> , <i>Alternaria solani</i> and <i>Phytophthora infestans</i> were tested. The chemical structure of ABL reference substance was elucidated by using ultraviolet spectrometry (UV), infrared spectroscopy (IR), nuclear magnetic resonance (NMR). The purity of ABL reference substance was 99.5%, which satisfies the need of reference substances of traditional Chinese medicines. A method of high performance liquid chromatography was used for the determination of the content of ABL in crude extract from <i>I. japonica</i> flowers (it's 2.45%), then the content of ABL in <i>I. japonica</i> was calculated (it's about 0.25%) [1]

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
------------	---------------------------------------------------------------

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.243 mL	16.214 mL	32.429 mL
5 mM	0.649 mL	3.243 mL	6.486 mL
10 mM	0.324 mL	1.621 mL	3.243 mL
50 mM	0.065 mL	0.324 mL	0.649 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Separation and analysis of 1-O-acetylbritannilactone from *Inula japonica* and determination of antifungal activity *Acta Phytophylacica Sinica*, 2008, 35 (6):551-6.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481