

Anhydrotuberosin

Chemical Properties

CAS No.:	41347-49-3
Formula:	C ₂₀ H ₁₆ O ₄
Molecular Weight:	320.3
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Standard reference
Targets(IC ₅₀)	Others: None
In vitro	<p>METHODS AND RESULTS: Pueraria tuberosa Linn (PT), Leguminosae (Fabaceae), known as Bidaarikand [6] is an extensive perennial climber, with palmately arranged leaves, blue colored flowers and half inches thick bark [7], growing throughout tropical parts of India, mostly in moist regions, monsoon forests and coastal tracts. Its tuberous root, which is brown in color and slightly curved, is in clinical use for rejuvenation therapy. Its microscopic picture reveals the presence of prismatic calcium crystals and tanniferous cells. Its major chemical constituents include flavones [C-glycoside (5,7,3',5'-tetrahydroxy-4'-methoxyflavone-3'-O-α-L-rhamnopyranosyl1\rightarrow3-O-β-D-galactopyranoside)], Isoflavones (Puerarone), Coumestan (Tuberostan, Puerarostan) [8], Epoxychalconol [Puetuberosanol], (3'-hydroxy-4'-phenoxy-α,β-epoxychalcon-α'ol)] [9], Pterocarpanoids [Hydroxytuberosin, Anhydroxytuberosin (3-O-methylAnhydrotuberosin)] [10], and Tuberosin [11]. CONCLUSIONS: The powder of PT root-tubers are in clinical use as anti-aging and also as tonic, aphrodisiac, demulcent, lactagogue, purgative, cholagogue and also in scorpion sting. Besides, it is also useful in emaciation of children, debility and poor digestion [6,7]. Other investigators have reported it for skin care, as anti-fertility [12]. One of its phytochemical, puerin, has been associated with anti-diabetic property [13].</p>

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.122 mL	15.610 mL	31.221 mL
5 mM	0.624 mL	3.122 mL	6.244 mL
10 mM	0.312 mL	1.561 mL	3.122 mL
50 mM	0.062 mL	0.312 mL	0.624 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. Antioxidant activity of tuberosin isolated from *Pueraria tuberosa* Linn. *J Inflamm (Lond)*. 2010 Sep 14;7:47.

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