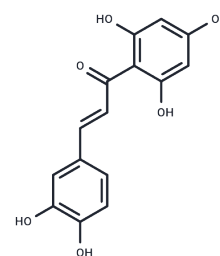


Eriodictyol chalcone

Chemical Properties

CAS No. : 14917-41-0
Formula: C₁₅H₁₂O₆
Molecular Weight: 288.25
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Eriodictyol chalcone has anti-plasmodial effects on <i>P. falciparum</i> growth.
Targets(IC50)	Anti-infection,Aromatase
In vitro	The orange-yellow colouration of <i>Coreopsis grandiflora</i> is mainly provided by the 6'-deoxychalcone butein and its 4'-glucoside respectively, as well as the corresponding 4-deoxyaurones sulfuretin and leptosidin (7-methoxysulfuretin) and their 6-glucosides. Incubation of butein or sulfuretin with enzyme preparations from petals of <i>Coreopsis grandiflora</i> in the presence of uridine 5'-diphosphoglucose led in each case to the formation of one single product, which was identified as butein 4'-glucoside and sulfuretin 6-glucoside, respectively. The 6'-deoxychalcone isoliquiritigenin was a poor substrate. Glucosylation of hydroxyl groups in other positions was not observed. Naringenin chalcone and Eriodictyol chalcone were not accepted as substrates. The glucosylation reaction of butein and sulfuretin exhibited an optimum at pH 8.0 and 7.0, respectively. Bivalent ions like Mg²⁺ and Ca²⁺ stimulated only slightly, whereas the addition of Cu²⁺, Zn²⁺, N-ethylmaleimide and p- hydroxymercuribenzoate led to a total loss of enzyme activity. The apparent Km values for butein and sulfuretin were 146 and 44 μM, respectively. CONCLUSIONS:The specific enzyme activity increased slowly during bud and flower development and declined in the later stages. The highest specific activity was observed in open flowers with 30 mm diameter. The rates of the glucosylation reaction with butein and sulfuretin had similar patterns.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4692 mL	17.3461 mL	34.6921 mL
5 mM	0.6938 mL	3.4692 mL	6.9384 mL
10 mM	0.3469 mL	1.7346 mL	3.4692 mL
50 mM	0.0694 mL	0.3469 mL	0.6938 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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