

p-Hydroxyphenethyl trans-ferulate

Chemical Properties

CAS No.:	84873-15-4
Formula:	C ₁₈ H ₁₈ O ₅
Molecular Weight:	314.3
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	P-Hydroxyphenethyl trans-ferulate exhibits affinity toward 5-HT(7) receptors in a competitive binding assay. P-Hydroxyphenethyl trans-ferulate can double quinone reductase specific activity in Hepa 1c1c7 cells at a level of 2.1 microg/mL (6.6 microM).
Targets(IC ₅₀)	5-HT: None
In vitro	Crude nonpolar solvent extracts were prepared from freeze-dried green onion by sequential refluxing with hexane and then ethyl acetate, followed by liquid-liquid extraction. Active fractions were subjected to the Hepa 1c1c7 bioassay-guided steps of flash chromatography, thin layer chromatography (TLC), and high-pressure preparative liquid chromatography (HPLC) to afford pure isolates capable of inducing QR. Multiple fractions were active in inducing QR. Five pure compounds were isolated from active fractions and identified using spectroscopic methods; these were p-Hydroxyphenethyl trans-ferulate (1), 5,6-dimethyl-2-pyridinecarboxylic acid (2), ferulic acid (3), 1-(6-hydroxy-[3]pyridyl)-propan-1-one (4), and N-trans-feruloyl 3-O-methyldopamine (5).

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	3.182 mL	15.908 mL	31.817 mL
5 mM	0.636 mL	3.182 mL	6.363 mL
10 mM	0.318 mL	1.591 mL	3.182 mL
50 mM	0.064 mL	0.318 mL	0.636 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. Isolation and identification of phase II enzyme-inducing agents from nonpolar extracts of green onion (*Allium* spp.) J Agric Food Chem. 2006 Nov 1;54(22):8417-24.

Inhibitors · Natural Compounds · Compound Libraries

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