[ Product Information ]

Name: N-p-trans-Coumaroyltyramine
Catalog No.: CFN98494
Cas No.: 36417-86-4
Purity: > 95%
M.F: C_{17}H_{17}NO_{3}
M.W: 283.3
Physical Description: Powder
Synonyms:

[ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[ Source ]

The herbs of *Exochorda racemosa*.

[ Biological Activity or Inhibitors ]

N-p-coumaroyltyramine, an α-glucosidase inhibitor, isolated from methanol extracts of
Welsh onion (Allium fistulosum), the inhibitory activity of it against a yeast enzyme is as high as Ki $8.4 \times 10^{-7}$ M.[1]

N-p-coumaroyl tyramine is an inhibitor on acetylcholinesterase (AChE), it inhibits AChE activity in a dose-dependent manner with IC$_{50}$ value of 34.5 microg/mL (122 microM).[2]

N-trans-p-coumaroyltyramine exhibits potent inhibition of cell proliferation, platelet aggregation, and shows antioxidant activity. [3]

N-trans-p-coumaroyltyramine and N-trans-pcoumaroyloctopamine exhibit a strong suppressive effect on phagocytosis response upon activation with serum opsonized zymosan in the range of IC$_{50}$ = 0.5-7.2 uM, they display weak cytotoxic activity against the human Caucasian prostate adenocarcinoma cell line PC-3, with IC$_{50}$ values ranging from 69.8 to 99.0 uM.[4]

N-trans-p-coumaroyltyramine, N-trans-caffeoyltyramine, and N-trans-feruloyltyramine as the main active constituents of a methanolic extract from aerial parts of Polygonum hyrnicum (Polygonaceae) show activity against Trypanosoma brucei rhodesiense (IC50s ranging from 2.2 to 13.3 microM).[5]

[ Solvent ]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[ HPLC Method ][6]

Mobile phase: Methanol- 0.1% Formic acid in water, gradient elution ;
Flow rate: 1.0 ml/min;
Column temperature: Room Temperature;
The wave length of determination: 300 nm.

[ Storage ]

2-8°C, Protected from air and light, refrigerate or freeze.
References


Contact

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