[ Product Information ]

Name: Ginkgolic acid C13:0
Catalog No.: CFN98507
Cas No.: 20261-38-5
Purity: >=98%
M.F: C_{20}H_{32}O_{3}
M.W: 320.47
Physical Description: Powder
Synonyms: 6-Tridecylsalicylic acid; 2-Hydroxy-6-tridecylbenzoic acid.

[ Intended Use ]

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

[ Source ]

The leaves of Ginkgo biloba L.

[ Biological Activity or Inhibitors ]
Ginkgolic acid C13:0 and C15:1 exhibit potential inhibition against Pseudodactylogyrus and can be explored as plant-derived antiparasitic for the control of Pseudodactylogyrus.[1] Ginkgolic acid C13:0 has a wide antimicrobial spectrum against E.coli and bacillus subtilis who are bacteria, and penicillium, penicillium purpurogenum, penicillium camemberti and aspergillus niger who are fungi, and the MIC of it against E.coli, bacillus subtilis and penicillium is 7.5, 15, 25 mg/mL seperately.[2] Ginkgolic acid (C13:0) exhibits the high α-glucosidase inhibitory activity. [3] Ginkgolic acid C13:0 represents a new kind of molluscicide agent, it has a pronounced effect on snail mitochondria with gross ultrastructural changes, it can inhibit the gene expression of four mitochondrial enzymes including cytochrome c oxidase, adenosine triphosphate (ATP) synthase, cytochrome b and dihydronicotinamide adenine dinucleotide (NADH) dehydrogenase, suggests that snail mitochondria is a potential target for the molluscicidal activity of ginkgolic acid C13:0.[4]

[ Solvent ]
Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[ HPLC Method ][5]
Mobile phase: Methanol-0.1% Formic acid in water =93:7 ;
Flow rate: 1.0 ml/min;
Column temperature: 30 ℃;
The wave length of determination:311 nm.

[ Storage ]
2-8℃, Protected from air and light, refrigerate or freeze.

[ References ]


[ Contact ]

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