

5-Epicanadensene

Chemical Properties

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| CAS No.: | 220384-17-8 |
| Formula: | C30H42O12 |
| Molecular Weight: | 594.65 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

Biological Description

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| Description | 5-Epicanadensene is a natural product from <i>Taxus sumatrana</i> . |
| Targets(IC ₅₀) | Others: None |
| In vitro | <p>Taxol is a complex polyoxygenated diterpene isolated from Pacific yew (<i>Taxus brevifolia</i>). The structures of Taxoids are diversified with species, season and growth environment and the clinical effectiveness of Taxol as a microtubule-stabilizing therapeutic agent for treatment of several malignancies has motivated many scientists to isolate new taxoids and investigate their anti-tumor activities. METHODS AND RESULTS: In this continuing search for new and bioactive natural taxoids, reinvestigation of the acetone extract of the twigs, needles and branches of <i>Taxus sumatrana</i> (Taxaceae) afforded thirty-seven taxane diterpenes esters, including sumataxins sumataxin A (1);Bsumataxin B (2);Bsumataxin C (3);Bsumataxin D (4);Btaxuyunnanine C (5);B5a,7B,9a,10B,13a-petaacetoxo-4(20),11-taxadiene (6);B2a,5a,9a,10B,14B-pentaacetoxytaxa-4(20),11-taxadiene (7);B14B-hydroxytaxusin (8);B2a-deacetoxytaxinine J (9);Btaxa-4-(20),11-diene-2a,5a,7B,9a,10B,13a-hexaol hexaacetate (10);B1-dehydroxy baccatin VI (11);B7B,9a,10B,13a,20-pentaacetoxo-2a-benzoyloxy-4a,5a-dihydroxytax-11-ene (12);Btaxacin (13);Bbaccatin VI (14);Btaxuspinanane J (15);B2-deacetoxo-5-decinamoyltaxinine J (16);BN-Methyl taxol C (17);B10-deacetyl yunnanaxane (18);Btaxumairol B (19);Btaxinine M (20);Bbaccatin III (21);Btaxuspinanane I (22);Btaxumairol K (23);Bwallifoliol (24);B13-oxo-baccatin III (25);Btaxol (26);B7-epi-10-deacetyl taxol (27);B10-deacetyl-13-oxo-baccatin III (28);B19-hydroxybaccatin III (29);B10-deacetyl taxol (30);B10-deacetyl-baccatin III (31);B13-acetyl-13-decinamoyltaxachinin B (32);B5-deacetyl taxachitriene B (33);B5-Epicanadensene (34);Btaxezopidine F (35);B13a,7B-diacetoxo-2a,5a,10B-trihydroxy-9-keto-2(3;÷20)abeotaxane (36);B2-deacetyl taxine B (37). The structures of new compounds were established on the basis of their spectroscopic analyses. CONCLUSIONS: Among them, compounds 1, 2, 3 and 4 are new compounds from natural source, 2a-deacetoxytaxinine J (9);Btaxuspinanane J (15) had effects on PBMC (Peripheral Blood Mononuclear Cells) proliferation, and sumataxin A;BD (1;B4) had light exhibited activity of HSV-1.</p> |

Solubility Information

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

| | 1mg | 5mg | 10mg |
|-------|----------|----------|-----------|
| 1 mM | 1.682 mL | 8.408 mL | 16.817 mL |
| 5 mM | 0.336 mL | 1.682 mL | 3.363 mL |
| 10 mM | 0.168 mL | 0.841 mL | 1.682 mL |
| 50 mM | 0.034 mL | 0.168 mL | 0.336 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. Studies on Diterpenoid Constituents from *Taxus sumatrana* in Taiwan. Biological Sciences, 2007.

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