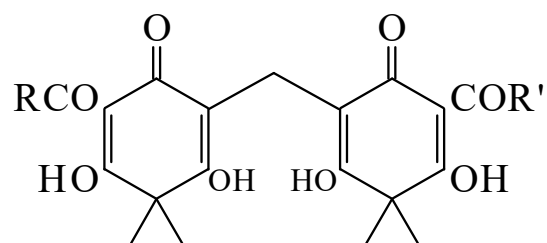




>>Entry Name: Albaspidins



|            |                                                                                                |
|------------|------------------------------------------------------------------------------------------------|
| Albaspidin | AA, R = R' = CH <sub>3</sub>                                                                   |
|            | AP, R = CH <sub>3</sub> , R' = CH <sub>2</sub> CH <sub>3</sub>                                 |
|            | AB, R = CH <sub>3</sub> , R' = CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>                 |
|            | PP, R = R' = CH <sub>2</sub> CH <sub>3</sub>                                                   |
|            | PB, R = CH <sub>2</sub> CH <sub>3</sub> , R' = CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> |
|            | BB, R = R' = CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>                                   |
|            | iBiB, R = R' = CH(CH <sub>3</sub> ) <sub>2</sub>                                               |

**General Statement:** The suffix letters denote the side-chains (A = acetyl, P = propionyl, B = butyryl, iB = isobutyryl)

**Biological Source:** Constits. of *Dryopteris* and *Aspidium* spp. ferns

**Physical Description:** Cryst. (hexane)

**Melting Point:** Mp 170-171° (164-166°)

**Other Data:** Albaspidin 1 was a mixt. of BB, PB and PP. Albaspidin 2 was a mixt. of AB and AP. The various albaspidins disproportionate under mildly alkaline conds.

>>Variant: Albaspidin AA

**Synonym(s):** 2,2'-Methylenebis[6-acetyl-3,5-dihydroxy-4,4-dimethyl-2,5-cyclohexadien-1-one], 9Cl. Albaspidin 3

**CAS Registry Number:** 3570-40-9

**Molecular Formula:** C<sub>21</sub>H<sub>24</sub>O<sub>8</sub>

**Molecular Weight:** 404.416

**Accurate Mass:** 404.14712

**Percentage Composition:** C 62.37%; H 5.98%; O 31.65%

**Source/Synthesis:** Also from *Hypericum drummondii*

**Physical Description:** Cryst. (Me<sub>2</sub>CO)

**Melting Point:** Mp 170-171°

**UV:** [neutral] λ<sub>max</sub> 294 (ε 50000); 336 (ε 40000); 339 (ε 62500) (EtOH) (Berdy)

>>Variant: Albaspidin AP

**CAS Registry Number:** 59092-91-0

**Molecular Formula:** C<sub>22</sub>H<sub>26</sub>O<sub>8</sub>

**Molecular Weight:** 418.443

**Accurate Mass:** 418.16277

**Percentage Composition:** C 63.15%; H 6.26%; O 30.59%

>>Variant: Albaspidin AB

**CAS Registry Number:** 3570-35-2

**Molecular Formula:** C<sub>23</sub>H<sub>28</sub>O<sub>8</sub>

**Molecular Weight:** 432.469

**Accurate Mass:** 432.17842

**Percentage Composition:** C 63.88%; H 6.53%; O 29.60%

>>Variant: Albaspidin PP

**CAS Registry Number:** 3570-39-6

**Molecular Formula:** C<sub>23</sub>H<sub>28</sub>O<sub>8</sub>

**Molecular Weight:** 432.469

**Accurate Mass:** 432.17842

**Percentage Composition:** C 63.88%; H 6.53%; O 29.60%

**Melting Point:** Mp 135-137°

**UV:** [neutral] λ<sub>max</sub> 264 (ε 40000); 294 (ε 32000); 344 (ε 25000) (EtOH) (Berdy)