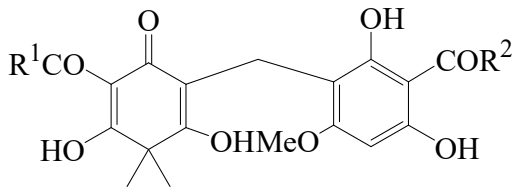
>>**Entry Name: Desaspidins**



Desaspidin AA $R^1 = R^2 = CH_3$
" AB $R^1 = CH_3$, $R^2 = CH_2CH_2CH_3$
" AP $R^1 = CH_3$, $R^2 = CH_2CH_3$
" PB $R^1 = CH_2CH_3$, $R^2 = CH_2CH_2CH_3$
" BB $R^1 = R^2 = CH_2CH_2CH_3$
" PA $R^1 = CH_2CH_3$, $R^2 = CH_3$
" PP $R^1 = R^2 = CH_2CH_3$

General Statement: The alphabetical suffixes refer to the acyl chains (A = acetyl, B = butyryl, P = propionyl)
Biological Source: Isol. from male ferns *Dryopteris* spp., *Dryopteris marginalis* and *Dryopteris austriaca*

>>**Variant: Desaspidin AA**

Molecular Formula: $C_{20}H_{22}O_8$
Molecular Weight: 390.389
Accurate Mass: 390.13147
Percentage Composition: C 61.53%; H 5.68%; O 32.79%

>>**Variant: Desaspidin AB**

CAS Registry Number: 3572-07-4
Molecular Formula: $C_{22}H_{26}O_8$
Molecular Weight: 418.443
Accurate Mass: 418.16277
Percentage Composition: C 63.15%; H 6.26%; O 30.59%
Physical Description: Cryst. (cyclohexane)
Melting Point: Mp 145-147° (synthetic)

>>**Variant: Desaspidin AP**

CAS Registry Number: 190663-84-4
Molecular Formula: $C_{21}H_{24}O_8$
Molecular Weight: 404.416
Accurate Mass: 404.14712
Percentage Composition: C 62.37%; H 5.98%; O 31.65%
Biological Source: Constit. of *Dryopteris subimpressa*

>>**Variant: Desaspidin PB**

Molecular Formula: $C_{23}H_{28}O_8$
Molecular Weight: 432.469
Accurate Mass: 432.17842
Percentage Composition: C 63.88%; H 6.53%; O 29.60%
Melting Point: Mp 141-142° (synthetic)

>>**Variant: Desaspidin BB**
Synonym(s): Desaspidin, INN**.** Resapin

CAS Registry Number: 114-43-2

Molecular Formula: $C_{24}H_{30}O_8$
Molecular Weight: 446.496
Accurate Mass: 446.19407
Percentage Composition: C 64.56%; H 6.77%; O 28.67%
Use/Importance: Anthelmintic
Physical Description: Cryst. (Et_2O/petrol)
Melting Point: Mp 150-150.5°