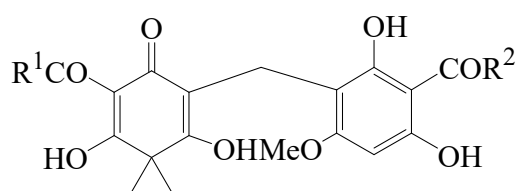




>>Entry Name: Desaspidins



Desaspidin AA	$R^1 = R^2 = \text{CH}_3$
" AB	$R^1 = \text{CH}_3, R^2 = \text{CH}_2\text{CH}_2\text{CH}_3$
" AP	$R^1 = \text{CH}_3, R^2 = \text{CH}_2\text{CH}_3$
" PB	$R^1 = \text{CH}_2\text{CH}_3, R^2 = \text{CH}_2\text{CH}_2\text{CH}_3$
" BB	$R^1 = R^2 = \text{CH}_2\text{CH}_2\text{CH}_3$
" PA	$R^1 = \text{CH}_2\text{CH}_3, R^2 = \text{CH}_3$
" PP	$R^1 = R^2 = \text{CH}_2\text{CH}_3$

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: $\text{C}_{20}\text{H}_{22}\text{O}_8$

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: $\text{C}_{22}\text{H}_{26}\text{O}_8$

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: $\text{C}_{21}\text{H}_{24}\text{O}_8$

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: $\text{C}_{23}\text{H}_{28}\text{O}_8$

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: $\text{C}_{24}\text{H}_{30}\text{O}_8$

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°