



>>Derivative: 3-*O*-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 4)- α -L-rhamnopyranosyl-(1 $\rightarrow$ 4)-[α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)]- β -D-glucopyranoside], 26-*O*- β -D-glucopyranoside
Synonym(s): **Dichotomin. Asperoside $\ddagger$**

CAS Registry Number: 53093-47-3

Molecular Formula: C₅₇H₉₄O₂₆

Molecular Weight: 1195.354

Accurate Mass: 1194.60334

Percentage Composition: C 57.27%; H 7.93%; O 34.80%

Biological Source: Constit. of *Panicum dichotomiflorum* and *Smilax aspera*

>>Derivative: 3-*O*-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 3)-[α -D-glucopyranosyl-(1 $\rightarrow$ 2)]- β -D-glucopyranoside], 26-*O*- β -D-glucopyranoside

Synonym(s): **Protozingiberenin A**

CAS Registry Number: 89203-42-9

Molecular Formula: C₅₁H₈₄O₂₃

Molecular Weight: 1065.211

Accurate Mass: 1064.540345

Percentage Composition: C 57.51%; H 7.95%; O 34.55%

Biological Source: Constit. of *Dioscorea zingiberensis*

>>Derivative: 22-Me ether, 3-*O*-[α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)- α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)- α -L-rhamnopyranosyl-(1 $\rightarrow$ 6)- β -D-glucopyranoside], 26-*O*- β -D-glucopyranoside

Synonym(s): **Kallstroemin B**

CAS Registry Number: 64652-20-6

Molecular Formula: C₅₈H₉₆O₂₆

Molecular Weight: 1209.381

Accurate Mass: 1208.61899

Percentage Composition: C 57.60%; H 8.00%; O 34.40%

Biological Source: From *Kallstroemia pubescens*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 232-235 dec.°

Optical Rotation: [α]_D -79.5 (Py)

>>Derivative: 22-Me ether, 3-*O*-[α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)-[β -D-xylopyranosyl-(1 $\rightarrow$ 4)]- β -D-glucopyranoside], 26-*O*- β -D-glucopyranoside

Synonym(s): **Trigofenoside E1**

CAS Registry Number: 101910-70-7

Molecular Formula: C₅₁H₈₄O₂₂

Molecular Weight: 1049.211

Accurate Mass: 1048.54543

Percentage Composition: C 58.38%; H 8.07%; O 33.55%

Biological Source: Isol. from seeds of fenugreek *Trigonella foenum-graecum*

Physical Description: Amorph. powder (MeOH/Me₂CO)

Melting Point: Mp 230-231°

Optical Rotation: [α]_D -57.9 (c, 1 in Py)

>>Derivative: 22-Me ether, 3-*O*-[β -D-glucopyranosyl-(1 $\rightarrow$ 2)- α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)[α -L-rhamnopyranosyl-(1 $\rightarrow$ 4)]- β -D-glucopyranoside], 26-*O*- β -D-glucopyranoside

Synonym(s): **Costusoside I**

CAS Registry Number: 82844-06-2

Molecular Formula: C₅₈H₉₆O₂₇

Molecular Weight: 1225.38

Accurate Mass: 1224.613905

Percentage Composition: C 56.85%; H 7.90%; O 35.25%

Biological Source: Constit. of *Costus speciosus*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 220-224°

Optical Rotation: [α]_D²⁵ -76.5 (c, 1.52 in Py)