



CAS Registry Number: 64652-19-3

Molecular Formula: C₅₇H₉₄O₂₆

Molecular Weight: 1195.354

Accurate Mass: 1194.60334

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

Biological Source: From *Kallstroemia pubescens*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 235-238 dec.°

Optical Rotation: [α]_D -82.2 (Py)

>>Derivative: 3-*O*-[α -L-Rhamnopyranosyl-(1→2)-[α -L-rhamnopyranosyl-(1→4)]- β -D-glucopyranoside], 26-*O*- β -D-glucopyranoside

Synonym(s): Protodioscin. Saponin C‡

CAS Registry Number: 55056-80-9

Molecular Formula: C₅₁H₈₄O₂₂

Molecular Weight: 1049.211

Accurate Mass: 1048.54543

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

Biological Source: From *Dioscorea gracillima*, *Dioscorea collettii* var. *hypoglauca*, *Tribulus terrestris* and *Asparagus officinalis*

Physical Description: Needles

Melting Point: Mp 190-192 dec.° (188-190° dec)

Optical Rotation: [α]_D¹³ -88.4 (c, 0.01 in Py). [α]_D -75.3 (c, 0.61 in MeOH)

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

Synonym(s): Protogracillin

CAS Registry Number: 54848-30-5

Molecular Formula: C₅₁H₈₄O₂₃

Molecular Weight: 1065.211

Accurate Mass: 1064.540345

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

Biological Source: From *Dioscorea septemloba* and *Dioscorea collettii* var. *hypoglauca*

Physical Description: Cryst.

Melting Point: Mp 254-256 dec.° (235-238° dec.)

Optical Rotation: [α]_D -57.8 (c, 1.2 in Py). [α]_D¹³ -72.9 (c, 0.01 in Py)

>>Derivative: 3-*O*-[β -D-Glucopyranosyl-(1→4)-[β -D-xylopyranosyl-(1→2)]- β -D-glucopyranosyl-(1→4)- β -D-galactopyranoside], 26-*O*- β -D-glucopyranoside

Synonym(s): Saponoside B

CAS Registry Number: 78886-82-5

Molecular Formula: C₅₆H₉₂O₂₈

Molecular Weight: 1213.326

Accurate Mass: 1212.57752

Percentage Composition: C 55.44%; H 7.64%; O 36.92%

Biological Source: From *Polygonatum multiflorum*

Physical Description: Amorph.

>>Derivative: 3-*O*-[α -L-Rhamnopyranosyl-(1→2)- β -D-glucopyranosyl-(1→6)- β -D-glucopyranoside], 26-*O*- β -D-glucopyranoside

Synonym(s): Trigofenoside F

CAS Registry Number: 94714-56-4

Molecular Formula: C₅₁H₈₄O₂₃

Molecular Weight: 1065.211

Accurate Mass: 1064.540345

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

Biological Source: Isol. from seeds of fennugreek (*Trigonella foenum-graecum*)

Physical Description: Amorph. solid

Melting Point: Mp 233-236°