



Synonym(s): Dehydrosoyasaponin I. DHS-1

CAS Registry Number: 117210-14-7

Molecular Formula: C₄₈H₇₆O₁₈

Molecular Weight: 941.118

Accurate Mass: 940.50317

Percentage Composition: C 61.26%; H 8.14%; O 30.60%

Biological Source: Constit. of *Desmodium styracifolium*, soya bean (*Glycine max*), alfalfa (*Medicago sativa*) and *Wisteria brachybotrys*

Biological Use/Importance: Potassium channel (BK_{Ca}) opener

Physical Description: Cryst. powder

Melting Point: Mp 272-280°

Optical Rotation: [α]_D²⁴ -43.2 (c, 0.5 in Py)

>>Derivative: 22-Ketone, 3-*O*-[α -L-rhamnopyranosyl-(1→2)- β -D-glucopyranosyl-(1→4)- β -D-glucuronopyranoside]

Molecular Formula: C₄₈H₇₆O₁₈

Molecular Weight: 941.118

Accurate Mass: 940.50317

Percentage Composition: C 61.26%; H 8.14%; O 30.60%

Biological Source: Constit. of *Oxytropis glabra*

Physical Description: Powder

Melting Point: Mp 220-223°

Optical Rotation: [α]_D²⁵ -15.5 (c, 0.4 in Py)

>>Derivative: 22-Ketone, 3-*O*-[α -L-rhamnopyranosyl-(1→2)- β -D-xylopyranosyl-(1→2)- β -D-glucuronopyranoside]

Synonym(s): Wistariasaponin D

CAS Registry Number: 136033-54-0

Molecular Formula: C₄₇H₇₄O₁₇

Molecular Weight: 911.091

Accurate Mass: 910.492605

Percentage Composition: C 61.96%; H 8.19%; O 29.85%

Biological Source: Constit. of *Wisteria brachybotrys*

>>Derivative: 22-Ketone, 3-*O*-[β -D-glucopyranosyl-(1→2)- β -D-glucuronopyranoside]

Synonym(s): Palustroside I

CAS Registry Number: 214692-84-9

Molecular Formula: C₄₂H₆₆O₁₄

Molecular Weight: 794.975

Accurate Mass: 794.44526

Percentage Composition: C 63.46%; H 8.37%; O 28.18%

Biological Source: Constit. of *Lathyrus palustris* var. *pilosus*

Physical Description: Powder

Optical Rotation: [α]_D²⁵ -9.8 (c, 0.52 in Py/H₂O)

>>Derivative: 3,22-Diketone

Synonym(s): 24-Hydroxy-12-oleanene-3,22-dione. Melilotigenin B

CAS Registry Number: 91269-84-0

Molecular Formula: C₃₀H₄₆O₃

Molecular Weight: 454.692

Accurate Mass: 454.344695

Percentage Composition: C 79.25%; H 10.20%; O 10.56%

Biological Source: Constit. of *Melilotus messanensis* and *Sophora* sp.

Physical Description: Needles (CHCl₃/MeOH)

Melting Point: Mp 196-201°

Optical Rotation: [α]_D²⁶ +34.8 (c, 0.64 in CHCl₃)

References: