



CAS Registry Number: 84633-34-1

Molecular Formula: C₄₅H₇₄O₁₇

Molecular Weight: 887.069

Accurate Mass: 886.492605

Percentage Composition: C 60.93%; H 8.41%; O 30.66%

Biological Source: Constit. of *Asparagus adscendens*

Physical Description: Needles (MeOH)

Melting Point: Mp 258-262 dec.°

Optical Rotation: [α]_D²⁰ -64.5 (c, 1.5 in Py)

>>Derivative: 3-*O*-[β -D-Glucopyranosyl-(1 $\rightarrow$ 3)-[β -D-glucopyranosyl-(1 $\rightarrow$ 4)]- β -D-glucopyranoside]

Synonym(s): Asparagoside D

CAS Registry Number: 60267-24-5

Molecular Formula: C₄₅H₇₄O₁₈

Molecular Weight: 903.069

Accurate Mass: 902.48752

Percentage Composition: C 59.85%; H 8.26%; O 31.89%

Biological Source: Constit. of *Asparagus officinalis*

Melting Point: Mp 246-250°

Optical Rotation: [α]_D²⁰ -166 (c, 0.43 in MeOH)

>>Derivative: 3-*O*-[α -L-Arabinopyranosyl-(1 $\rightarrow$ 4)-[α -L-rhamnopyranosyl-(1 $\rightarrow$ 6)]- β -D-glucopyranosyl-(1 $\rightarrow$ 2)]- β -D-glucopyranoside]

Synonym(s): Asparanin D

CAS Registry Number: 83931-89-9

Molecular Formula: C₅₀H₈₂O₂₁

Molecular Weight: 1019.185

Accurate Mass: 1018.534865

Percentage Composition: C 58.92%; H 8.11%; O 32.97%

Biological Source: Constit. of *Asparagus adscendens*

>>Derivative: 3-*O*-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 4)-[β -D-glucopyranosyl-(1 $\rightarrow$ 2)]-[β -D-glucopyranosyl-(1 $\rightarrow$ 6)]- β -D-glucopyranoside]

Synonym(s): Parillin

CAS Registry Number: 19057-61-5

Molecular Formula: C₅₁H₈₄O₂₂

Molecular Weight: 1049.211

Accurate Mass: 1048.54543

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

Biological Source: Constit. of *Smilax aristolochiaefolia*

Biological Use/Importance: Antineoplastic agent

Physical Description: Cryst. + 2H₂O (MeOH)

Melting Point: Mp 220-223°

Optical Rotation: [α]_D²⁰ -64 (c, 1 in EtOH)

Calculated Log P Data: Log P -1.41 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (mus, ipr) 10 mg/kg ; BERDY HAZD : LD₅₀ (mus, ipr) 10 mg/kg

>>Derivative: 3-*O*-[β -D-Galactopyranosyl-(1 $\rightarrow$ 4)-[β -D-xylopyranosyl-(1 $\rightarrow$ 6)]- β -D-glucopyranosyl-(1 $\rightarrow$ 4)]- β -D-glucopyranoside]

Synonym(s): Filicinin A

CAS Registry Number: 173356-79-1

Molecular Formula: C₅₀H₈₂O₂₂

Molecular Weight: 1035.185

Accurate Mass: 1034.52978

Percentage Composition: C 58.01%; H 7.98%; O 34.00%

Biological Source: Constit. of *Asparagus filicinus*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 187-189°

Optical Rotation: [α]_D²⁰ -49 (MeOH)