CAS Registry Number: 163135-92-0

Molecular Formula: $C_{44}H_{71}NO_{15}$
Molecular Weight: 854.043
Accurate Mass: 853.482374
Percentage Composition: C 61.88%; H 8.38%; N 1.64%; O 28.10%
Biological Source: From roots of *Solanum anguivi* (Solanaceae)
Physical Description: Amorph.
Optical Rotation: $[\alpha]_D^{22}$ –83.2 (c, 0.87 in Py)

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

Molecular Formula: $C_{45}H_{73}NO_{16}$
Molecular Weight: 884.069
Accurate Mass: 883.492939
Percentage Composition: C 61.14%; H 8.32%; N 1.58%; O 28.96%
Biological Source: Alkaloid from the bulbs of *Lilium brownii* var. *colchesteri* (Liliaceae)
Physical Description: Amorph. powder
Optical Rotation: $[\alpha]_D^{28}$ –77.3 (c, 0.11 in MeOH)

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

CAS Registry Number: 20311-51-7

Molecular Formula: $C_{45}H_{73}NO_{15}$
Molecular Weight: 868.069
Accurate Mass: 867.498024
Percentage Composition: C 62.26%; H 8.48%; N 1.61%; O 27.65%
Biological Source: Alkaloid from *Solanum marginatum* and a very large number of *Solanum* spp. (Solanaceae)
Melting Point: Mp 301 dec.°
Optical Rotation: $[\alpha]_D$ –105 (MeOH)

>>**Derivative:** 3-*O*-[α-L-Rhamnopyranosyl-(1→3)-[α-L-rhamnopyranosyl-(1→4)]-β-D-glucopyranoside]
Synonym(s): Solanelagnine

CAS Registry Number: 181023-53-0

Molecular Formula: $C_{45}H_{73}NO_{15}$
Molecular Weight: 868.069
Accurate Mass: 867.498024
Percentage Composition: C 62.26%; H 8.48%; N 1.61%; O 27.65%
Biological Source: Alkaloid from *Solanum elaeagnifolium*

>>**Derivative:** 3-*O*-[α-L-Rhamnopyranosyl-(1→2)-[β-D-glucopyranosyl-(1→3)]-β-D-galactopyranoside]
Synonym(s): Solasonine. Solasodamine

CAS Registry Number: 19121-58-5

Molecular Formula: $C_{45}H_{73}NO_{16}$
Molecular Weight: 884.069
Accurate Mass: 883.492939
Percentage Composition: C 61.14%; H 8.32%; N 1.58%; O 28.96%
Biological Source: Alkaloid from *Solanum sodomeum* and a very large number of *Solanum* spp. (Solanaceae)
Use/Importance: Molluscicidal agent
Melting Point: Mp 300-301°
Optical Rotation: $[\alpha]_D$ –74 (MeOH)
Solubility: BERDY SOL: Sol. MeOH; poorly sol. H_2O, hexane
Calculated Log P Data: Log P 0.12 (uncertain value) (calc)
UV: [neutral] λ_{max} (MeOH) (Berdy)
Hazard & Toxicity: BERDY HAZD : LD_{50} (mus, ipr) 30 mg/kg