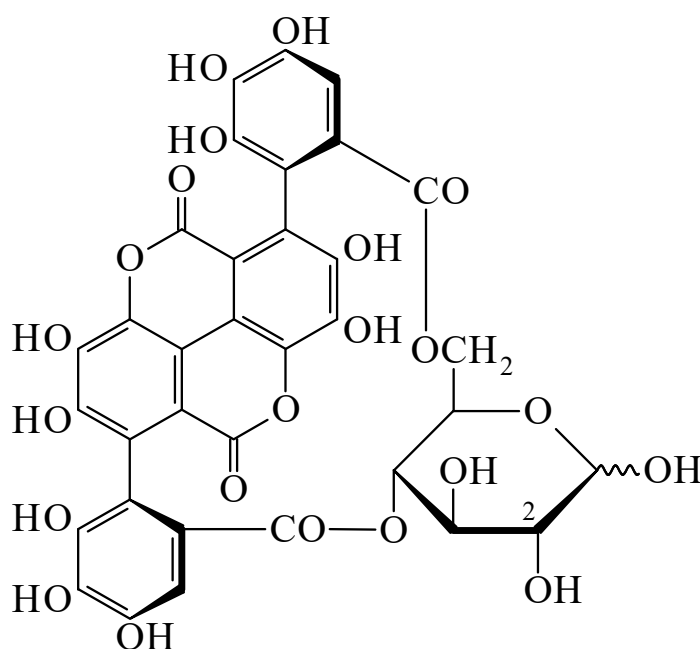




>>Entry Name: Punicalin

ENTRY UNDER REVIEW

Synonym(s): 4,6-Gallagylglucose



CAS Registry Number: 65995-64-4

Molecular Formula: $C_{34}H_{22}O_{22}$

Molecular Weight: 782.535

Accurate Mass: 782.06028

Percentage Composition: C 52.19%; H 2.83%; O 44.98%

Biological Source: Constit. of pomegranate (*Punica granatum*) peel

Use/Importance: Shows anti-HIV activity

Physical Description: Yellow amorph. powder + 1H₂O

Optical Rotation: $[\alpha]_D^{28} -81.1$ (c, 0.6 in H₂O)

UV: [neutral] λ_{max} 216 (ϵ 74131); 258 (ϵ 67610); 329 (ϵ 14125) (MeOH) (Berdy)

>>Derivative: 2-*O*-(3,4,5-Trihydroxybenzoyl)

Synonym(s): 2-*O*-Galloylpunicalin

CAS Registry Number: 103488-45-5

Molecular Formula: $C_{41}H_{26}O_{26}$

Molecular Weight: 934.641

Accurate Mass: 934.07124

Percentage Composition: C 52.69%; H 2.80%; O 44.51%

Biological Source: Isol. from bark of pomegranate (*Punica granatum*)

Physical Description: Yellow cryst. powder (H₂O)

Melting Point: Mp 255 dec.°

Optical Rotation: $[\alpha]_D^{28} +3.8$ (c, 0.9 in MeOH)

>>Derivative: 3-*O*-(3,4,5-Trihydroxybenzoyl)

Synonym(s): 3-*O*-Galloylpunicalin. Arjunin

Molecular Formula: $C_{41}H_{26}O_{26}$

Molecular Weight: 934.641

Accurate Mass: 934.07124

Percentage Composition: C 52.69%; H 2.80%; O 44.51%

Biological Source: Constit. of *Terminalia arjuna*

Biological Use/Importance: Moderate cytotoxic agent

UV: [neutral] λ_{max} 279 () (MeOH) [neutral] λ_{max} 279 () (MeOH) (Berdy)

References: