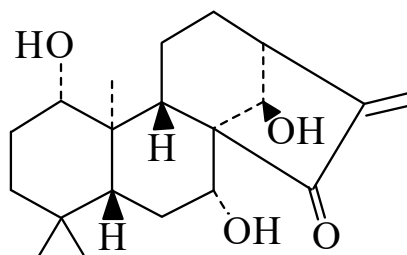




>>Entry Name: 1,7,14-Trihydroxy-16-kauren-15-one



Molecular Formula: C₂₀H₃₀O₄

Molecular Weight: 334.455

Accurate Mass: 334.21441

Percentage Composition: C 71.82%; H 9.04%; O 19.13%

>>Variant: (*ent*-1 β ,7 β ,14 α)-form

Synonym(s): Kamebanin

CAS Registry Number: 39388-57-3

Molecular Formula: C₂₀H₃₀O₄

Molecular Weight: 334.455

Accurate Mass: 334.21441

Percentage Composition: C 71.82%; H 9.04%; O 19.13%

Biological Source: Constit. of *Isodon kameba* and *Rabdosia* spp.

Use/Importance: Shows antibacterial activity and *in vivo* antitumour activity against Ehrlich ascites carcinoma

Physical Description: Cryst.

Melting Point: Mp 266-267°

Optical Rotation: [α]_D¹⁹ -108 (c, 1 in dioxan)

UV: [neutral] $\lambda_{\max}$ 234 (ϵ 7700) (EtOH) (Derep) [neutral] $\lambda_{\max}$ 233 (ϵ 7700) (EtOH) (Berdy)

>>Derivative: 7-Ac

Synonym(s): *ent*-7 β -Acetoxy-1 β ,14*S*-dihydroxy-16-kauren-15-one

Molecular Formula: C₂₂H₃₂O₅

Molecular Weight: 376.492

Accurate Mass: 376.224975

Percentage Composition: C 70.19%; H 8.57%; O 21.25%

Biological Source: Constit. of *Rabdosia umbrosa*

Physical Description: Needles

Melting Point: Mp 201-202°

Optical Rotation: [α]_D²² -121.8 (c, 0.63 in MeOH)

>>Derivative: 14-Ac

Synonym(s): *ent*-14*S*-Acetoxy-1 β ,7 β -dihydroxy-16-kauren-15-one

Molecular Formula: C₂₂H₃₂O₅

Molecular Weight: 376.492

Accurate Mass: 376.224975

Percentage Composition: C 70.19%; H 8.57%; O 21.25%

Biological Source: Constit. of *Rabdosia umbrosa*

Physical Description: Amorph. powder

Optical Rotation: [α]_D²² -94 (c, 0.47 in MeOH)

>>Derivative: Tri-Ac

Physical Description: Needles

Melting Point: Mp 196-198°

References:

Kubo, I. *et al.*, *Chem. Lett.*, 1977, 1289, (*isol, struct*)

Takeda, Y. *et al.*, *Phytochemistry*, 1989, **28**, 1691, (*derivs*)