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## Product Data Sheet

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Product Name: Alisol C 23-acetate (23-O-Acetylalisol C)

Cat. No.: GC34038

### Chemical Properties

Cas. No. 26575-93-9

SMILES C[C@@]([C@]([C@@H](O)C1)([H])[C@]2(CCC3=O)C)(CC[C@@]2([H])C3(C)C)[C@](C1=C([C@H](C)C[C@@H]([C@]4([H])C(C)(C)O4)OC(C)=O)C5=O)(C5)CFormula C<sub>32</sub>H<sub>48</sub>O<sub>6</sub>

M.Wt 528.72

Solubility DMSO : 25 mg/mL (47.28 mM; ultrasonic and warming and heat to 60°C)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure 

### Background

Alisol C monoacetate is a triterpenoid that has been found in *Alisma orientale* and has diverse biological activities.<sup>1,2,3,4</sup> It is active against certain antibiotic-resistant strains of *S. aureus*, *E. faecium*, *E. coli*, and *P. aeruginosa* (MICs = 2.5-5 µg/ml) but not against other antibiotic-resistant strains of *S. aureus* or *E. coli* (MICs = >256 µg/ml).<sup>2,3</sup> Alisol C monoacetate (1-10 µM) inhibits osteoclast formation induced by calcitriol in a co-culture of primary rat osteoblasts and primary rat bone marrow cells.<sup>4</sup> It reduces trabecular bone loss and serum levels of a variety of cytokines, including TNF-α, IL-6, and IL-1β, in an ovariectomized rat model of osteoporosis when administered at doses of 1 and 2 mg/kg. Alisol C monoacetate (10 and 50 mg/kg) also reduces ear edema in a mouse model of delayed-type hypersensitivity.<sup>1</sup>

1.Lee, J.H., Kwon, O.S., Jin, H.-G., et al. The rhizomes of *Alisma orientale* and alisol derivatives inhibit allergic response and experimental atopic dermatitis *Biol. Pharm. Bull.* 35(9)1581-1587(2012) 2.Jin, H.-G., Jin, Q., Kim, A.R., et al. A new triterpenoid from

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Alisma orientale and their antibacterial effect Arch. Pharm. Res.35(11)1919-1926(2012)  
3.Li, C., Yan, W., Cui, E., et al. Anti-bacterial effect of phytoconstituents isolated from  
Alimatis rhizoma Appl. Biol. Chem.64(9)1-5(2021) 4.Jia, X., Zhu, H., Li, G., et al. Anti-  
osteoporotic effects of alisol C 23-acetate via osteoclastogenesis inhibition Biomed.  
Pharmacother.137111321(2021)

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