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**Product Data Sheet**


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Product Name: Alisol F  
 Cat. No.: GC30371

**Chemical Properties**

Cas. No. 155521-45-2

SMILES C[C@]1(C(C[C@@H]2O)=C([C@@H]3C)[C@](O[C@@]([C@@H](O)C(C)(O)C)([H])C3)([H])C1)[C@]([C@]2([H])[C@]4(CCC5=O)C)(CC[C@@]4([H])C5(C)C)C

Formula C<sub>30</sub>H<sub>48</sub>O<sub>5</sub> M.Wt 488.7

Solubility DMSO : 100 mg/mL (204.62 mM; Need ultrasonic) 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 F is a triterpene that has been found in *A. orientale* and has anti-inflammatory and hepatoprotective activities.<sup>1,2</sup> It reduces levels of inducible nitric oxide synthase (iNOS) and COX-2 and the production of TNF- $\alpha$ , IL-6, and IL-1 $\beta$  in LPS-stimulated RAW 264.7 cells.<sup>1</sup> Alisol F (20 mg/kg) reduces plasma alanine transaminase (ALT) and aspartate aminotransferase (AST) levels, hepatic fibrosis, and hepatic levels of phosphorylated ERK in a mouse model of LPS/D-galactosamine-induced acute liver injury.<sup>1,2</sup>

1. Bi, X., Wang, P., Ma, Q., et al. Anti-inflammatory activities and liver protection of alisol F and 25-anhydroalisol F through the inhibition of MAPK, STAT3, and NF- $\kappa$ B activation in vitro and in vivo. *Molecules* 22(6)951(2017)  
 2. Choi, E., Jang, E., and Lee, J.-H. Pharmacological activities of *Alisma orientale* against nonalcoholic fatty liver disease and metabolic syndrome: Literature review. *Evid. Based Complement. Alternat. Med.* 2943162(2019)

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

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