
Product Data Sheet

Product Name: Anemarsaponin B

Cat. No.: GN10685

Chemical Properties

Cas. No. 139051-27-7

Chemical Name (2S,3R,4S,5S,6R)-2-(((2R,3R,4S,5R,6R)-4,5-dihydroxy-6-(hydroxymethyl)-2-(((6aS,8aS,8bS,11aS)-6a,8a,9-trimethyl-10-(3-methyl-4-(((2R,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)butyl)-2,2a,3,4,5,6,6a,6b,7,8,8a,8b,11a,12,12a,

SMILES CC(CO[C@@]1([H])[C@@](O)([H])[C@](O)([H])[C@@](O)([H])[C@@](O1)([H])CO)([H])CCC(O2)=C([C@@]3([H])[C@]2([H])CC4([H])C(C5([H])CC[C@@]43C)([H])CCC6([H])CC(O[C@@]7([H])[C@@](O[C@@]8([H])[C@@](O)([H])[C@](O)([H])[C@@](O)([H])[C@@](O8)([H])CO)([H])[C@](O)([H])[

Formula C₄₅H₇₄O₁₈ M.Wt 903.06

Solubility ≥ 8.77mg/mL in EtOH with ultrasonic and warming Storage

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**

Anemarsaponin B is a steroidal saponin isolated from the rhizomes of *A. asphodeloides* (Liliaceae). Anemarsaponin B decreases the protein and mRNA levels of iNOS and COX-2. Anemarsaponin B reduces the expressions and productions of pro-inflammatory cytokines, including TNF- α and IL-6. Anemarsaponin B inhibits the nuclear translocation of the p65 subunit of NF- κ B by blocking the phosphorylation of I κ B α . Anemarsaponin B also inhibits the phosphorylation of MAP kinase kinases 3/6 (MKK3/6) and mixed lineage kinase 3 (MLK3). Anti-inflammatory effect [1].

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

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References:

[1]. Kim JY, et al. Anti-inflammatory effect of anemarsaponin B isolated from the rhizomes of *Anemarrhena asphodeloides* in LPS-induced RAW 264.7 macrophages is mediated by negative regulation of the nuclear factor-kappaB and p38 pathways. *Food Chem Toxicol.* 2009 Jul;47(7):1610-7.

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