
Product Data Sheet

Product Name: Ilexsaponin A

Cat. No.: GC38566

Chemical Properties

Cas. No. 108524-93-2

SMILES OC[C@H]([C@@H](O)[C@H](O)[C@H]1O)O[C@H]1OC([C@]23[C@]([C@](O)([C@H](C)CC3)C)([H])C4=CC[C@@]([C@@]5([C@@]([C@](C)([C@@H](O)CC5)C(O)=O)([H])CC6)C)([H])[C@]6(C)[C@]4(C)CC2)=OFormula C₃₆H₅₆O₁₁

M.Wt 664.82

Solubility DMSO : 100 mg/mL (150.42 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**

Ilexsaponin A, isolated from the root of *Ilex pubescens*, attenuates ischemia-reperfusion-induced myocardial injury through anti-apoptotic pathway. Ilexsaponin A can reduce myocardial infarct size, lower the serum levels of LDH, AST and CK-MB, increase cellular viability and inhibit apoptosis in hypoxia/reoxygenation cardiomyocytes[1].

Ilexsaponin A significantly reduces proapoptotic proteins including caspase-3, cleaved caspase-3 and bax and increases anti-apoptotic protein bcl-2 in hypoxia/reoxygenation cardiomyocytes. Ilexsaponin A treatment increases the expression levels of p-Akt in hypoxia/reoxygenation cellular model and myocardial ischemia/reperfusion animal model[1].

Ilexsaponin A (10 or 40 mg/kg) reduce the myocardial infarct size in a dose dependent manner in male Sprague-Dawley rats weighing 280-320 g[1].

[1]. Zhang SW, et al. Ilexsaponin A attenuates ischemia-reperfusion-induced myocardial

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

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injury through anti-apoptotic pathway. PLoS One. 2017 Feb 9;12(2):e0170984.

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