Sodium aescinate

MedChemExpress

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway:	HY-N1404 20977-05-3 C ₅₄ H ₈₃ NaO ₂₃ 1123.21 NF-кВ NF-кВ	$HO \rightarrow ONa \rightarrow ONa \rightarrow OH \rightarrow O$
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

SOLVENT & SOLUBILITY

In Vitro DMSO : 100 m H ₂ O : 100 mg Preparing Stock Solution	DMSO : 100 mg/mL (89.03 mM; Need ultrasonic) H ₂ O : 100 mg/mL (89.03 mM; Need ultrasonic)				
		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	0.8903 mL	4.4515 mL	8.9031 mL
		5 mM	0.1781 mL	0.8903 mL	1.7806 mL
		10 mM	0.0890 mL	0.4452 mL	0.8903 mL
	Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent Solubility: 25 mg/	one by one: PBS ′mL (22.26 mM); Clear solution; Need	ultrasonic		

DIOLOGICAL ACTIVITY				
Description	Sodium aescinate is a triterpene saponin derived from Aesculus hippocastanum seeds, with anti-inflammatory and antioxidant activities ^[1] . Sodium aescinate inhibits hepatocellular carcinoma growth by targeting CARMA3/NF-κB pathway ^[2] .			
In Vitro	Sodium aescinate can block signals transiting to downstream molecules AKT, ERK, inhibit the proliferation of breast cancer cell MCF-7 cell apoptosis and induced cell apoptosis by suppressing the activation of SRC ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	Sodium aescinate may effectively controls and improves wound healing in diabetic rats via its anti-inflammatory and antioxidant activities ^[1] . ?Sodium aescinate treatment can alleviate the symptom of polycystic ovary syndrome (PCOS) in rat model through regulating the PI3K/Akt/GSK3-β pathway ^[4] .			

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REFERENCES

[1]. Zhang Z, et al. The Efficacy of Sodium Aescinate on Cutaneous Wound Healing in Diabetic Rats. Inflammation. 2015 Oct;38(5):1942-8.

[2]. Hou H, et al. CARMA3/NF-kB signaling contributes to tumorigenesis of hepatocellular carcinoma and is inhibited by sodium aescinate. World J Gastroenterol. 2019 Sep 28;25(36):5483-5493.

[3]. Qi SM, et al. Effect of sodium aescinate in inducing human breast cancer MCF-7 cells apoptosis by inhibiting AKT, ERK and upstream signal SRC activity. Zhongguo Zhong Yao Za Zhi. 2015 Aug;40(16):3267-72.

[4]. Chen L, et al. Effect of sodium aescinate treatment on PCOS rat model with insulin resistance. Bratisl Lek Listy. 2017;118(4):223-227.

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

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