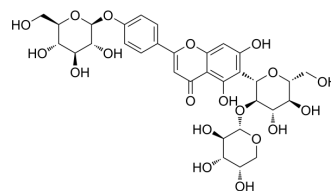


Vaccarin

Cat. No.:	HY-N1419
CAS No.:	53452-16-7
Molecular Formula:	C ₃₂ H ₃₈ O ₁₉
Molecular Weight:	726.63
Target:	AMPK
Pathway:	Epigenetics; PI3K/Akt/mTOR
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (172.03 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.3762 mL	6.8811 mL	13.7622 mL
		5 mM		0.2752 mL	1.3762 mL	2.7524 mL
		10 mM		0.1376 mL	0.6881 mL	1.3762 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (2.86 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (2.86 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (2.86 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	Vaccarin is an active flavonoid glycoside associated with various biological functions. Vaccarin significantly promote wound healing and endothelial cells and fibroblasts proliferation in the wound site. Vaccarin ameliorates insulin resistance and steatosis by activating the AMPK signaling pathway ^{[1][2]} .
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REFERENCES

[1]. Lei Y, et al. Vaccarin ameliorates insulin resistance and steatosis by activating the AMPK signaling pathway. Eur J Pharmacol. 2019 May 15;851:13-24.

[2]. Hou B, et al. Vaccarin hastens wound healing by promoting angiogenesis via activation of MAPK/ERK and PI3K/AKT signaling pathways in vivo. Acta Cir Bras. 2020 Feb 7;34(12):e201901202.

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

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