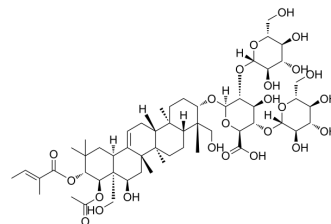


Escin IA

Cat. No.:	HY-N0554
CAS No.:	123748-68-5
Molecular Formula:	C ₅₅ H ₈₆ O ₂₄
Molecular Weight:	1131.26
Target:	HIV Protease
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (88.40 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		0.8840 mL	4.4199 mL	8.8397 mL
		5 mM		0.1768 mL	0.8840 mL	1.7679 mL
10 mM		0.0884 mL	0.4420 mL	0.8840 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (2.21 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Escin IA is a triterpene saponin isolated from <i>Aesculus hippocastanum</i> , which inhibits HIV-1 protease with IC ₅₀ values of 35 μM. Escin IA has anti-TNBC metastasis activity, and its action mechanisms involved inhibition of epithelial-mesenchymal transition process by down-regulating LOXL2 expression ^{[1][2]} .
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REFERENCES

- [1]. Yang XW, et al. Anti-HIV-1 protease triterpenoid saponins from the seeds of *Aesculus chinensis*. *J Nat Prod.* 1999 Nov;62(11):1510-3.
- [2]. Wang Y, et al. Escin Ia suppresses the metastasis of triple-negative breast cancer by inhibiting epithelial-mesenchymal transition via down-regulating LOXL2 expression. *Oncotarget.* 2016 Apr 26;7(17):23684-99.

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

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