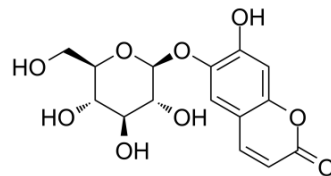


Esculin

Cat. No.:	HY-N0188		
CAS No.:	531-75-9		
Molecular Formula:	C ₁₅ H ₁₆ O ₉		
Molecular Weight:	340.28		
Target:	p38 MAPK		
Pathway:	MAPK/ERK Pathway		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Esculin, a fluorescent coumarin glucoside, is an active ingredient of ash bark ^[1] . Esculin ameliorates cognitive impairment in experimental diabetic nephropathy (DN), and exerts anti-oxidative stress and anti-inflammatory effects, via the MAPK signaling pathway ^[2] .
IC ₅₀ & Target	p38 MAPK

REFERENCES

[1]. Knox K, et al. The Coumarin Glucoside, Esculin, Reveals Rapid Changes in Phloem-Transport Velocity in Response to Environmental Cues. *Plant Physiol.* 2018 Oct;178(2):795-807.

[2]. Song Y, et al. Esculin ameliorates cognitive impairment in experimental diabetic nephropathy and induces anti-oxidative stress and anti-inflammatory effects via the MAPK pathway. *Mol Med Rep.* 2018 May;17(5):7395-7402.

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

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