Kushenol K

Cat. No.:	HY-117010	
CAS No.:	101236-49-1	
Molecular Formula:	$C_{26}H_{32}O_{8}$	N CH
Molecular Weight:	472.53	HO HO HO
Target:	Cytochrome P450; HSV; SGLT	С
Pathway:	Metabolic Enzyme/Protease; Anti-infection; Membrane Transporter/Ion Channel	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY						
Description	Kushenol K, a flavonoid antioxidant isolated from the roots of Sophora flavescens. Kushenol K is a cytochrome P-450 3A4 (CYP3A4) inhibitor with a K _i value of 1.35 μM ^[1] . Kushenol K shows weak antiviral activity against HSV-2 (EC ₅₀ of 147 μM) ^[2] . Kushenol K also inhibits the activity of SGLT1 and SGLT2 ^[3] .					
IC ₅₀ & Target	CYP3A4 1.35 μΜ (Ki)	СҮРЗ	SGLT1	SGLT2		
	HSV-2 147 μΜ (EC50)					
In Vitro	When Midazolam is used as the substrate of CYP3A4, Kushenol K exhibits the strong inhibition with an IC ₅₀ values of 1.62 μM ^[1] . At a concentration of 50 μM, the inhibition rate of Kushenol K on SGLT1 is 29.7%, and the inhibition rate on SGLT2 is 43.7% ^[3] .					
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.					

REFERENCES

[1]. Yannan Li, et al. Drug interaction study of flavonoids toward CYP3A4 and their quantitative structure activity relationship (QSAR) analysis for predicting potential effects. Toxicol Lett. 2018 Sep 15;294:27-36.

[2]. E R Woo, et al. A new prenylated flavonol from the roots of Sophora flavescens. J Nat Prod. 1998 Dec;61(12):1552-4.

[3]. Seizo Sato, et al. Na+-glucose cotransporter (SGLT) inhibitory flavonoids from the roots of Sophora flavescens. Bioorg Med Chem. 2007 May 15;15(10):3445-9.

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

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Product Data Sheet

