5'-Methoxynobiletin

Cat. No.:	HY-134602	
CAS No.:	6965-36-2	$\mathbf{\hat{\mathbf{O}}}$ 0
Molecular Formula:	$C_{22}H_{24}O_{9}$	
Molecular Weight:	432.42	
Target:	Others	
Pathway:	Others	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	0

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Product Data Sheet

BIOLOGICAL ACTIV					
Description		ent and orally active antinociceptive and anti-inflammatory agent. 5'-Methoxynobiletin is a n be isolated from A. conyzoides ^{[1][2]} .			
In Vivo	5'-Methoxynobiletin (5 mg/kg, IP) signifcantly decreases leukocyte counting, neutrophil infux and protein concentration in the exudate, as well as reduced the levels of several pro-infammatory mediators ^[2] . 5'-Methoxynobiletin (100 mg/kg, Orally, once) shows anti-nociceptive and anti-inflammatory activity ^[2] . 5'-Methoxynobiletin (10 mg/kg (IV), 50 mg/kg (oral), once) showed a low oral bioavailability in rats, around 8-11% ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
	Animal Model:	Swiss mice (female) ^[2]			
	Dosage:	100 mg/kg			
	Administration:	Orally			
	Result:	Significantly reduced both phases of formalin-induced nocifensive behavior after 15, 30 and 60 min of oral administration, when compared to control groups. In the neurogenic phase, inhibitions of 43±3%, 68±6% and 53±5% of the nociceptive response were observed, while for the infammatory phase inhibitions were 70±8%, 91±3% and 85±3% after 15, 30 and 60 min of the oral administration of 5'-Methoxynobiletin, respectively.			
	Animal Model:	Wistar rats (male) ^[2]			
	Dosage:	10 mg/kg (IV), 50 mg/kg (oral)			
	Administration:	IV, oral, once (Pharmacokinetic Analysis)			
	Result:	Pharmacokinetic Parameters of 5'-Methoxynobiletin in male Wistar rats $^{[1]}$.			
		IV (10 mg/kg) IG (50 mg/kg)			

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λ (h ⁻¹)	0.55±0.03	0.29±0.2
T _{max} (h)		2.71±0.49
C _{max} (mg/L)		0.62±0.21
AUC _{0-∞} (mg·h/L)	8.19±4.1	3.65±0.8
t _{1/2} elimination (h)	1.26±0.1	2.31±0.9
CL (L/h.kg)	1.22±0.26	13.68±0.29
Vd, ss (L/kg)	2.24±0.32	47.46±10.10
F (%)		8.67

REFERENCES

[1]. Faqueti LG, et al. Antinociceptive and anti-inflammatory activities of standardized extract of polymethoxyflavones from Ageratum conyzoides. J Ethnopharmacol. 2016 Dec 24;194:369-377.

[2]. Faqueti LG, et al. Preclinical Pharmacokinetic and Pharmacodynamic Investigation of 5'-Methoxynobiletin from Ageratum conyzoides: In vivo and In silico Approaches. Pharm Res. 2022 Sep;39(9):2135-2145.

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

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