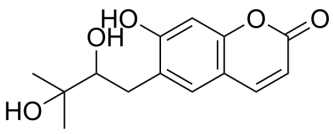
Peucedanol

Cat. No.:	HY-N3090
CAS No.:	46992-81-8
Molecular Formula:	$C_{14}H_{16}O_5$
Molecular Weight:	264.27
Target:	Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Peucedanol is a non-competitive inhibitor of CYP3A4 with a K_i value of 4.07 μM and a competitive inhibitor of CYP1A2 and CYP2D6 with K_i values of 3.39 μM and 6.77 μM, respectively[1].
In Vitro	Peucedanol (0, 2.5, 5, 10, 25, 50, and 100 μM; 0-30 min) is incubated with eight human liver CYP isoforms (CYP1A2, 2A6, 3A4, 2C8, 2C9, 2C19, 2D6, and 2E1), in pooled human liver microsomes (HLMs) for 30 min with specific inhibitors as positive controls.Peucedanol significantly inhibits the activity of CYP1A2, 2D6, and 3A4 in a dose-dependent manner with IC_{50} values of 6.03 μM, 13.57 μM, and 7.58 μM, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Cun Zhang, et al. In vitro study on the effect of peucedanol on the activity of cytochrome P450 enzymes. Pharm Biol. 2021 Dec;59(1):935-940.

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