Enterodiol

Cat. No.:HY-108695CAS No.:80226-00-2Molecular Formula: $C_{18}H_{22}O_4$ Molecular Weight:302.36Target:Endogenous Metabolite; ApoptosisPathway:Metabolic Enzyme/Protease; ApoptosisStorage:Please store the product under the recommended conditions in the Certificate of Analysis.	HO HO
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Description	Enterodiol is transformed by human intestinal bacteria from lignans contained in various whole-grain cereals, nuts, legumes, flaxseed, and vegetables. Enterodiol has an apoptotic effect in colorectal cancer (CRC) cells. Anti-cancer activities [1][2].		
IC ₅₀ & Target	Human Endogenous Metabolite		
In Vitro	Enterodiol (0-100 μM; 24-72 hours) results in an apoptosis rate of up to 40% in CT26 cells. Enterodiol shows no cytotoxicity toward RAW264.7 macrophages ^[1] . Enterodiol (0-100 μM; 24-48 hours) also suppresses the migration of CRC cells in a concentration-dependent manner. The phosphorylation of ERK, JNK, and p38 is down-regulated with Enterodiol treatment. Enterodiol (0-100 μM; 48 hours) decreases the expression levels of anti-apoptotic proteins in CRC cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	Enterodiol (1 mg/kg; intra MCE has not independent Animal Model: Dosage: Administration: Result:	 -tumor injection method; once every other day until day 32) suppresses tumor markedly^[2]. ly confirmed the accuracy of these methods. They are for reference only. 4-8 weeks old female BALB/c nude mice^[2] 1 mg/kg Intra-tumor injection method; once every other day until day 32 A significant reduction in the tumor volume in the experimental groups compared to the PBS group. 	

REFERENCES

[1]. Shin MK, et al. Apoptotic effect of enterodiol, the final metabolite of edible lignans, in colorectal cancer cells. J Sci Food Agric. 2019;99(5):2411-2419.

[2]. Liu H, et al. Enterolactone has stronger effects than enterodiol on ovarian cancer. J Ovarian Res. 2017;10(1):49. Published 2017 Jul 24.

Product Data Sheet



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

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