Methapyrilene

Cat. No.:	HY-111130	
CAS No.:	91-80-5	
Molecular Formula:	$C_{14}H_{19}N_3S$	
Molecular Weight:	261.39	
Target:	Histamine Receptor; mAChR	$\langle N, \langle N, \rangle$
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling	$N \sim S$
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	I

Product Data Sheet

BIOLOGICAL ACTIVITY Description Methapyrilene is a histamine antagonist, a pyridine chemical with anticholinergic activity. Methapyrilene can cause target organ-specific epigenetic alterations, such as a decrease in DNA methylation levels. Methapyrilene induces hepatocellular carcinoma in rats^{[1][2]}. In Vitro Methapyrilene (650 µM, 72 h) decreases the transcriptional level of transferrin and is accompanied by a decrease in transferrin protein levels in HepRG cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. In Vivo Methapyrilene (gavage with water (vehicle), 50 or 150 mg/kg, daily, 3 days) can induce hepatotoxicity and lead to periportal hepatic necrosis in rats^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Male Wistar derived AlpK:APfSD (Alderley Park) rats^[2] Animal Model: Dosage: 50 mg/kg, 150 mg/kg Administration: Gavage with water (vehicle), daily, 3 days Result: Showed mild to moderate periportal hepatocyte degeneration and necrosis as well as acute inflammatory cells were observed in the filtering periportal vein at a dose concentration of 150 mg/kg. Decreased levels of both glucose and glycogen in the liver. Showed higher levels of succinic acid and dimethylglycine of urine obtained from the low dose group of 50 mg/kg.

REFERENCES

[1]. Volodymyr Tryndyak, et al. Effect of aflatoxin B1, benzo[a]pyrene, and methapyrilene on transcriptomic and epigenetic alterations in human liver HepaRG cells. Food Chem Toxicol. 2018 Nov;121:214-223.

[2]. Andrew Craig, et al. Systems toxicology: integrated genomic, proteomic and metabonomic analysis of methapyrilene induced hepatotoxicity in the rat. J Proteome Res. 2006 Jul;5(7):1586-60



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Inhibitors

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Screening Libraries

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Proteins

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

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