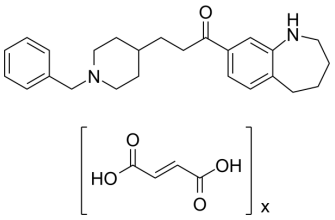
Zanapezil fumarate

Cat. No.:	HY-19651B
CAS No.:	263248-42-6
Molecular Formula:	$C_{25}H_{32}N_2O.xC_4H_4O_4$
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Zanapezil (TAK-147) fumarate is a potent, reversible and selective acetylcholine esterase (AChE) inhibitor. Zanapezil fumarate shows a potent and reversible inhibition of AChE activity in homogenates of the rat cerebral cortex (IC_{50}=51.2 nM). Zanapezil fumarate shows a moderate inhibition of muscarinic M1 and M2 receptor binding with K_i values of 234 and 340 nM, respectively. Zanapezil fumarate can be used for the research of early stages of Alzheimer's disease (AD)[1][2].
IC_{50} & Target	AChE

REFERENCES

[1]. K Hirai, et al. Neurochemical effects of 3-[1-(phenylmethyl)-4-piperidinyl]-1-(2,3,4,5-tetrahydro-1H-1-b enzazepin-8-yl)-1-propanone fumarate (TAK-147), a novel acetylcholinesterase inhibitor, in rats. J Pharmacol Exp Ther. 1997 Mar;280(3):1261-9.

[2]. Izzettin Hatip-Al-Khatib,et al. Comparison of the effect of TAK-147 (zanapezil) and E-2020 (donepezil) on extracellular acetylcholine level and blood flow in the ventral hippocampus of freely moving rats. Brain Res. 2004 Jun 25;1012(1-2):169-76.

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