

Product Data Sheet

Product Name: Zanapezil

Cat. No.: GC75875

Chemical Properties

Cas. No. 142852-51-5

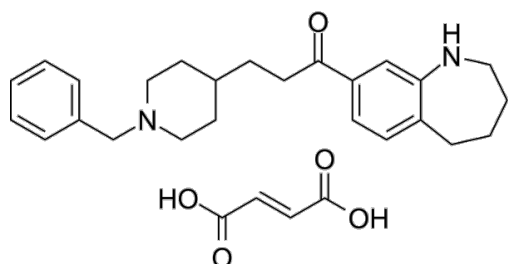
Formula $C_{29}H_{36}N_2O_5$ M.Wt 492.61

Solubility DMSO: 100 mg/mL (203.00 mM; Need ultrasonic) Storage 4°C, sealed storage, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Zanapezil (TAK-147) is a potent, reversible and selective acetylcholine esterase (AChE) inhibitor.

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

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Zanapezil shows a potent and reversible inhibition of AChE activity in homogenates of the rat cerebral cortex ($IC_{50}=51.2$ nM). Zanapezil shows a moderate inhibition of muscarinic M1 and M2 receptor binding with K_i values of 234 and 340 nM, respectively. Zanapezil can be used for the research of early stages of Alzheimer's disease (AD)^{[1][2]}.

References:

- [1]. K Hirai, et al. Neurochemical effects of 3-[1-(phenylmethyl)-4-piperidinyl]-1-(2,3,4,5-tetrahydro-1H-1-benzazepin-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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