

Zanapezil free base Biochemical

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CATALOG #
AAA227702

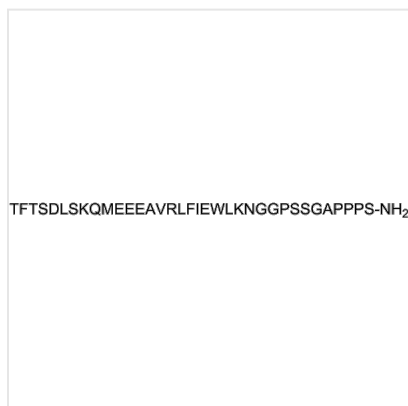
PRODUCT SYNONYMS

Zanapezil free base; Zanapezil free base biochemical

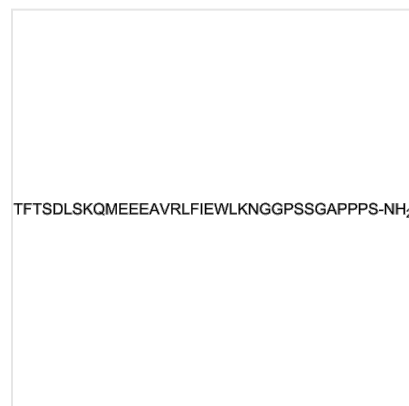
PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	142852-50-4
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	Oral administration of Zanapezil (TAK-147; 3mg/kg) free base significantly accelerated the turnover rates of dopamine, noradrenaline and serotonin in the rat brain. Oral administration of Zanapezil free base at doses ranging from 1 to 10 mg/kg induces a statistically significant and dose-dependent decrease in AChE activity in the cerebral cortex in ex vivo experiments[1]. Zanapezil (TAK-147; 5 and 10 mg/kg) free base significantly increases ACh level in the ventral hippocampus (VH) for 120 min[2]. Animal Model: Male Wistar rats 7 weeks in age (230-240 g)[2]. Dosage: 5 and 10 mg/kg. Administration: Oral administration. Result: Increased acetylcholine (ACh) level in the VH for 120 min.
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Exendin (5-39), CAS 196109-27-0



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ADDITIONAL INFORMATION

Related Product Information for Zanapezil free base biochemical

Zanapezil (TAK-147) free base is a potent, reversible and selective acetylcholine esterase (AChE) inhibitor. Zanapezil free base shows a potent and reversible inhibition of AChE activity in homogenates of the rat cerebral cortex (IC₅₀ =51.2 nM). Zanapezil free base shows a moderate inhibition of muscarinic M1 and M2 receptor binding with K_i values of 234 and 340 nM, respectively. Zanapezil free base can be used for the research of early stages of Alzheimer's disease (AD).

References

1. Kazuma Kobayashi, et al. Exendin (5-39), an antagonist of GLP-1 receptor, modulates synaptic transmission via glutamate uptake in the dentate gyrus. Brain Res. 2013 Apr 10;1505:1-10.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/zanapezil-free-base/227702>