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**Product Data Sheet**

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Product Name: BuChE-IN-TM-10

Cat. No.: GC35564

**Chemical Properties**

Cas. No. 2313524-95-5

SMILES O=C(N1CC2=C(C=CC=C2)CC1)/C=C/C3=CC=C(OCCCCN(CC4=CC=CC=C4)CC)C(OC)=C3Formula C<sub>32</sub>H<sub>38</sub>N<sub>2</sub>O<sub>3</sub>

M.Wt

498.66

Solubility Soluble in DMSO

Storage

Store at -20°C

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

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

Structure **Background**

BuChE-IN-TM-10 (TM-10) is a potent butyrylcholinesterase (BuChE) inhibitor, with an IC<sub>50</sub> of 8.9 nM. BuChE inhibitor 1 inhibits and disaggregates self-induced A $\beta$  aggregation, exhibiting potent antioxidant activity and good blood-brain barrier (BBB) penetration. Has potential to treat Alzheimer's disease[1]. IC<sub>50</sub>: 8.9 nM (BuChE)[1].

[1]. Sang Z, et al. Design, Synthesis, and Evaluation of Novel Ferulic Acid Derivatives as Multi-Target-Directed Ligands for the Treatment of Alzheimer's Disease. ACS Chem Neurosci. 2019 Feb 20;10(2):1008-1024.

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

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