

Product Datasheet

BuChE-IN-TM-10

Catalog No. **BP-02000** · CAS **2313524-95-5** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-10**

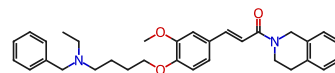
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Target Cholinesterase (ChE)	Research area Neurological Disease
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Molecular formula **C₃₂H₃₈N₂O₃**

Molecular weight **498.6557**

STRUCTURE



DESCRIPTION

BuChE-IN-TM-10 (TM-10) is a potent butyrylcholinesterase (BuChE) inhibitor, with an IC₅₀ of 8.9 nM. BuChE inhibitor 1 inhibits and disaggregates self-induced Aβ aggregation, exhibiting potent antioxidant activity and good blood-brain barrier (BBB) penetration. Has potential to treat Alzheimer's disease.

SOLUBILITY

Soluble in DMSO

REFERENCES

[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.

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