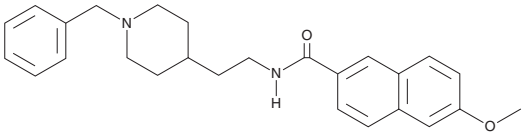
PRODUCT INFORMATION

AChE/BChE-IN-10

Item No. 46416

CAS Registry No.: 2924824-48-4
Formal Name: 6-methoxy-N-[2-[1-(phenylmethyl)-4-piperidinyl]ethyl]-2-naphthalenecarboxamide
Synonyms: Acetylcholinesterase/Butyrylcholinesterase-IN-10, Acetylcholinesterase/Butyrylcholinesterase Inhibitor 10, AChE/BChE Inhibitor 10
MF: $C_{26}H_{30}N_2O_2$
FW: 402.5
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

AChE/BChE-IN-10 is supplied as a solid. A stock solution may be made by dissolving the AChE/BChE-IN-10 in the solvent of choice, which should be purged with an inert gas. AChE/BChE-IN-10 is sparingly soluble (1-10 mg/ml) in ethanol and DMSO.

Description

AChE/BChE-IN-10 is a dual inhibitor of acetylcholinesterase (AChE) and butyrylcholinesterase (BChE; IC_{50}s = 0.41 and 0.47 µM, respectively).[1] It inhibits amyloid-β (1-42) (Aβ42) self-aggregation by 25% at 10 µM.

Reference

1. Abdullaha, M., Nuthakki, V.K., and Bharate, S.B. Discovery of methoxy-naphthyl linked N-(1-benzylpiperidine) benzamide as a blood-brain permeable dual inhibitor of acetylcholinesterase and butyrylcholinesterase. *Eur. J. Med. Chem.* **207:112761**, (2020).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM