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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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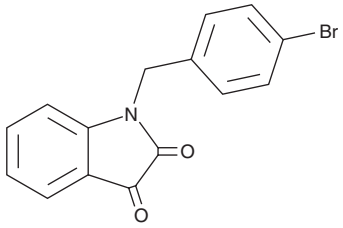
PRODUCT INFORMATION

VU0119498

Item No. 36132

CAS Registry No.:	79183-37-2
Formal Name:	1-[(4-bromophenyl)methyl]-1H-indole-2,3-dione
MF:	$C_{15}H_{10}BrNO_2$
FW:	316.2
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

VU0119498 is supplied as a solid. A stock solution may be made by dissolving the VU0119498 in the solvent of choice, which should be purged with an inert gas. VU0119498 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of VU0119498 in these solvents is approximately 2 and 5 mg/ml, respectively.

Description

VU0119498 is a positive allosteric modulator (PAM) of M_1, M_3, and M_5 muscarinic acetylcholine receptors (mAChRs; EC_{50}s = 6.04, 6.38, and 4.08 µM, respectively, in calcium mobilization assays).[1] It is selective for M_1, M_3, and M_5 mAChRs over M_2 and M_4 mAChRs in CHO cells expressing the human receptors. VU0119498 (20 µM) enhances ACh-induced insulin secretion in MIN6-K8 pancreatic β-cells.[2] It decreases glucose tolerance and increases insulin secretion in mice fed normal chow, as well as in a mouse model of high-fat diet-induced obesity, when administered at a dose of 0.5 mg/kg.

References

1. Bridges, T.M., Marlo, J.E., Niswender, C.M., *et al.* Discovery of the first highly M5-preferring muscarinic acetylcholine receptor ligand, an M5 positive allosteric modulator derived from a series of 5-trifluoromethoxy N-benzyl isatins. *J. Med. Chem.* **52(11),** 3445-3448 (2009).
2. Zhu, L., Rossi, M., Cohen, A., *et al.* Allosteric modulation of β-cell M_3 muscarinic acetylcholine receptors greatly improves glucose homeostasis in lean and obese mice. *Proc. Natl. Acad. Sci. U.S.A.* **116(37),** 18684-18690 (2019).

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