Data Sheet (Cat.No.T41209)

TargetMol

DPNB-ABT 594

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	DPNB-ABT 594 is a nitrobenzyl-caged ABT 594, a selective α4β2 nAChR agonist. One-photon uncaging evokes large inward currents and Ca2+transients on cell bodies and dendrites of medial habenular neurons in mouse brain slices. Two-photon uncaging induces fast nAChR-mediated currents. Photolyzed with high quantum yield of 0.20. Effective photolysis occurs using one- or two-photon excitation; one-photon uncaging requires illumination at 410 nm for 1.5-3 ms; two-photon uncaging requires illumination with appropriate two photon pulse laser at 710 nm for ~2 ms.
Targets(IC50)	Others

Reference

Passlick et al (2018) Optical probing of acetylcholine receptors on neurons in the medial habenula with a novel caged nicotine drug analogue. J.Physiol. 596 5307 PMID: 30222192

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