Data Sheet (Cat.No.T41210)

TargetMol

PA Nic

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	PA Nic is a coumarin-caged nicotine. Releases nicotine when exposed to 390 ± 10 nm wavelength light (λmax = 404 nm). Suitable for two-photon uncaging at <900 nm (Maximum two-photon cross-section at 810 nm). Extinction coefficient (ε) 17,400 M-1cm-1. Evokes nicotinic currents in mouse brain slices under one and two-photon activation conditions.
Targets(IC50)	Others

Reference

Banala et al (2018) Photoactivatable drugs for nicotinic optopharmacology. Nat.Methods 15 347 PMID: 29578537

Yan et al (2018) Nicotinic cholinergic receptors in VTA glutamate neurons modulate excitatory transmission. Cell Rep. 23 2236 PMID: 29791835

Arvin et al (2019) Probing nicotinic acetylcholine receptor function in mouse brain slices via laser flash photolysis of photoactivatable nicotine. J.Vis.Exp. 143 e58873 PMID: 30735191

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