

AAQ chloride

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	Photoswitchable Kv channel blocker (IC50 values are 2 and 64 μ M at 500 nm and 380 nm respectively). Switches conformation from cis to trans at 500 nm and trans to cis at 380 nm. Exhibits minimal activity at Nav1.2 and L-type Ca ²⁺ channels. Stimulates action potential firing of hippocampal neurons in vitro at 500 nm and restores visual responsiveness in blind mice at 380 nm.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

- Fortin et al (2008) Photochemical control of endogenous ion channels and cellular excitability. Nat.Methods 5 331 PMID:18311146
- Polosukhina et al (2012) Photochemical restoration of visual responses in blind mice. Neuron 75 271 PMID: 22841312
- Banghart et al (2009) Photochromic blockers of voltage-gated potassium channels. Angew.Chem.Int.Ed. 48 9097 PMID:19882609

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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