
Product Data Sheet

Product Name: QAQ dichloride

Cat. No.: GC50174

Chemical Properties

Cas. No.

SMILES O=C(C[N+](CC)(CC)CC)NC(C=C2)=CC=C2/N=N/C1=CC=C(NC(C[N+](CC)(CC)CC)=O)C=C1.[Cl-].[Cl-]

Formula C₂₈H₄₄Cl₂N₆O₂

M.Wt 567.59

Solubility DMSO : 10 mg/mL (17.62 mM; ultrasonic and warming and heat to 60°C)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Photoswitchable Nav, Cav and Kv channel blocker. Blocks channels in the trans conformation. Switches conformation from cis to trans at 500 nm and trans to cis at 380 nm. Normally membrane impermeant, but enters nociceptive neurons via ion channels activated by noxious stimuli, particularly TRPV1. Exhibits optically reversible local anesthesia in rats.

Mourot et al (2012) Rapid optical control of nociception with an ion-channel photoswitch. Nat.Methods 9 396 PMID:22343342 |Banghart MR et al (2009) Photochromic blockers of voltage-gated potassium channels. Angew.Chem.Int.Ed. 48 9097 PMID:19882609

Caution: Product has not been fully validated for medical applications. For research use only.

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