

Product Data Sheet

Product Name: Quinacrine analog 34

Cat. No.: GC44797

Chemical Properties

Cas. No. 1411646-44-0

SMILES C1C1=CC=C2C(N=C(CCCC3)C3=C2NCCN4CCN(C)CC4)=C1

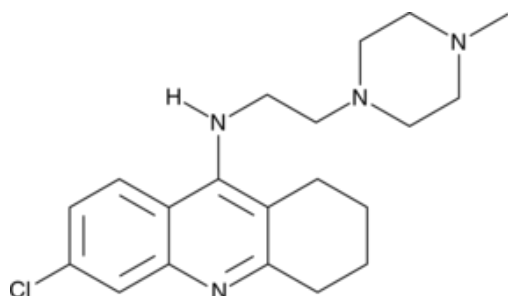
Formula C₂₀H₂₇ClN₄ M.Wt 358.9

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, DMSO:PBS (pH 7.2) (1:1): 0.5 mg/ml, Ethanol: 5 mg/ml
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 sizes: ship with RT, or blue ice upon request.

Structure



Background

Quinacrine is a compound with multiple actions that is commonly used as an anti-protozoal agent. It has also been shown to be a highly potent autophagy inhibitor, although the dose required to achieve this effect is considerably cytotoxic (LD₅₀ = 2.5 μM). Quinacrine analog 34 is a derivative of quinacrine that was designed with an improved cell viability profile (LD₅₀ = 27 μM) to inhibit autophagy. At a minimum concentration of 0.5 μM, this compound has been shown to increase the protein levels of the autophagy biomarker LC3-II and to induce lysosome deacidification.

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

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