

Product Data Sheet

Product Name: MARK4 inhibitor 2

Cat. No.: GC73537

Chemical Properties

Cas. No.

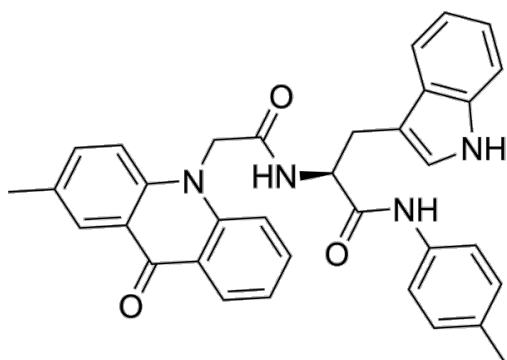
Formula $C_{34}H_{30}N_4O_3$ M.Wt 542.63

Solubility DMSO : 100 mg/mL (184.29 mM; Storage -20°C
Need ultrasonic)

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

MARK4 inhibitor 2 is an inhibitor of microtubule affinity-regulating kinase 4 (MARK4) with an K_m of 6.3×10^{-7} and an IC_{50} of 0.82 μM . MARK4 inhibitor 2 inhibits the growth of human cells and can be used for cancer research.

MARK4 inhibitor 2 (Compound 23a) (0-20 μM ; 24 hour) inhibits the growth of HeLa, U87MG, MDA-MB-435, U251 and HGFs cells with EC_{50} s ranging from 1.76 μM to 7.98 μM [1].

References:

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

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[1]. Maria Voura, et.al. Synthesis, Structural Modification, and Bioactivity Evaluation of Substituted Acridones as Potent Microtubule Affinity-Regulating Kinase 4 Inhibitors *ACS Pharmacology & Translational Science* 2023 6 (7), 1052-1074.

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