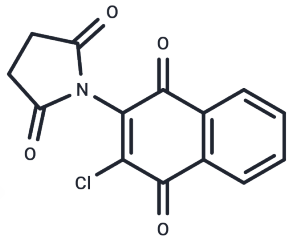
Data Sheet (Cat.No.T212593)

TargetMol

MEK Inhibitor II

Chemical Properties



CAS No. : 623163-52-0

Formula: C14H8ClNO4

Molecular Weight: 289.67

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	MEK Inhibitor II (2-Chloro-3-(N-succinimidyl)-1,4-naphthoquinone) is a selective MEK1 inhibitor (IC50=0.38 μM) that inhibits tubulin polymerization in Trypanosoma cruzi (IC50=6 μM) and exhibits inhibitory activity against trypanosomes (IC50=2.77 μM).
Targets(IC50)	MEK,Microtubule Associated,Antibiotic

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4522 mL	17.261 mL	34.522 mL
5 mM	0.6904 mL	3.4522 mL	6.9044 mL
10 mM	0.3452 mL	1.7261 mL	3.4522 mL
50 mM	0.069 mL	0.3452 mL	0.6904 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Bakare O, Ashendel CL, Peng H, Zalkow LH, Burgess EM. Synthesis and MEK1 inhibitory activities of imido-substituted 2-chloro-1,4-naphthoquinones. Bioorg Med Chem. 2003;11(14):3165-3170.
Ogindo CO, et al. Novel drug design for Chagas disease via targeting Trypanosoma cruzi tubulin: Homology modeling and binding pocket prediction on Trypanosoma cruzi tubulin polymerization inhibition by naphthoquinone derivatives. Bioorg Med Chem. 2016;24(16):3849-3855.

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