Data Sheet (Cat.No.T69195)

TargetMol®
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UC-857993

Chemical Properties

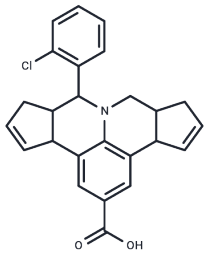
CAS No. : 487001-04-7

Formula: C25H22ClNO2

Molecular Weight: 403.9

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	UC-857993, a selective SOS1-Ras inhibitor (Kd=14.7 μM, His6-SOS1cat), effectively suppresses catalytic activity. In addition to inhibiting ERK and Ras activation, it also hampers the growth of mouse embryonic fibroblasts (MEFs).
In vitro	Imidacloprid (0, 10, and 20 μM ; 4-6 days) can reduce insulin-stimulated glucose uptake in adipocytes (3T3-L1), hepatocytes (HepG2), and myotubes (C2C12) cell culture models. Treatment with imidacloprid inhibits phosphorylation of protein kinase B (AKT) and ribosomal S6 kinase (S6K).[3]
In vivo	Imidacloprid(0, 5, 10, 20 mg/kg/day ; oral ; female rats) shows mild pathological changes in the brain, liver, and kidneys of rats.[4]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4759 mL	12.3793 mL	24.7586 mL
5 mM	0.4952 mL	2.4759 mL	4.9517 mL
10 mM	0.2476 mL	1.2379 mL	2.4759 mL
50 mM	0.0495 mL	0.2476 mL	0.4952 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.

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