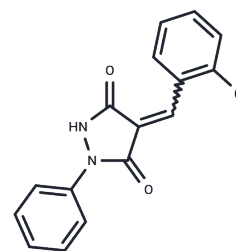


DOCK2-IN-1

Chemical Properties

CAS No. :	4590-86-7
Formula:	C ₁₆ H ₁₁ ClN ₂ O ₂
Molecular Weight:	298.72
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	DOCK2-IN-1 is a selective DOCK2 inhibitor (IC ₅₀ = 0.51 μM). It suppresses lymphocyte migration and cytoskeleton reorganization by blocking DOCK2-mediated Rac activation, used for immune response and transplant rejection research.
Targets(IC ₅₀)	Others
In vitro	DOCK2-IN-1 specifically inhibits DOCK2-mediated Rac1/2 activation and dose-dependently blocks lymphocyte chemotaxis [1].
In vivo	DOCK2-IN-1 exhibits anti-inflammatory effects by inhibiting lymphocyte infiltration and alleviates contact dermatitis and transplant rejection in mice [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (267.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3476 mL	16.7381 mL	33.4762 mL
5 mM	0.6695 mL	3.3476 mL	6.6952 mL
10 mM	0.3348 mL	1.6738 mL	3.3476 mL
50 mM	0.067 mL	0.3348 mL	0.6695 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

Xiang H, et al. Discovery of Small-Molecule Autophagy Inhibitors by Disrupting the Protein-Protein Interactions Involving Autophagy-Related 5. J Med Chem. 2023 Feb 23;66(4):2457-2476.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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