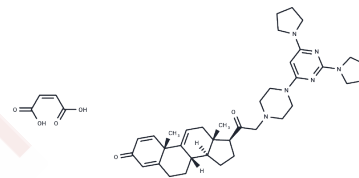


U-74389G

Chemical Properties

CAS No. : 153190-29-5
 Formula: C₄₁H₅₄N₆O₆
 Molecular Weight: 726.919
 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	U-74389G is an antioxidant which prevents iron-dependent lipid peroxidation. It protects against ischemia-reperfusion injury in animal heart, liver, and kidney models. [1],[2],[3],[4]
Targets(IC50)	Others,ROS

Solubility Information

Solubility	DMSO: 35 mg/mL (48.15 mM),Sonication is recommended. DMF: 36 mg/mL (49.52 mM),Sonication is recommended. Ethanol: 1 mg/mL (1.38 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	1.3757 mL	6.8783 mL	13.7567 mL
5 mM	0.2751 mL	1.3757 mL	2.7513 mL
10 mM	0.1376 mL	0.6878 mL	1.3757 mL
50 mM	0.0275 mL	0.1376 mL	0.2751 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

Ishizaki, N., Zhu, Y., Zhang, S., et al. Comparison of various lazaroid compounds for protection against ischemic liver injury. *Transplantation* 63, 202-208 (1997).

Palma-Vargas, J.M., Toledo, A.H., García-Criado, F.J., et al. 21-Aminosteroids block neutrophil infiltration and provide liver protection independent of nitrite/nitrate levels. *Journal of Surgical Research* 66, 131-137 (1996).

Perna, A.M., Liguori, P., Bonacchi, M., et al. Protection of rat heart from ischaemia-reperfusion injury by the 21-aminosteroid U-74389G. *Pharmacological Research* 34, 25-31 (1996).

Shoskes, D.A., Xie, Y., and Gonzalez-Cadavid, N.F. Nitric oxide synthase activity in renal ischemia-reperfusion injury in the rat. Implications for renal transplantation. *Transplantation* 63, 495-500 (1997).

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