Data Sheet (Cat.No.T22965)

MDL 72527

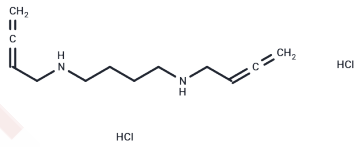
Chemical Properties

CAS No. : 93565-01-6

Formula: C12H22Cl2N2

Molecular Weight: 265.22

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	MDL 72527 (N1,N4-Di(buta-2,3-dien-1-yl)butane-1,4-diamine dihydrochloride) is a polyamine oxidase (POA) inhibitor
Targets(IC50)	Others,Monoamine Oxidase
In vivo	In the absence of CRP, exposure of platelets to MDL-72527 did not significantly modify [Ca2+]i, P-selectin abundance, αIIbβ3 integrin abundance, ROS, annexin-V-binding, and forward scatter. The addition of 2-5 μg/ml CRP was followed by significant increase of [Ca2+]i, P-selectin abundance, αIIbβ3 integrin activation, ROS abundance, annexin-V-binding, and aggregation as well as a significant decrease of forward scatter, all effects significantly blunted or virtually abolished in the presence of MDL-72527. MDL-72527 is a powerful inhibitor of platelet activation, apoptosis and aggregation[1].

Solubility Information

Solubility	DMSO: 1.75 mg/mL (6.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.18 mg/mL (0.68 mM),Solution. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7705 mL	18.8523 mL	37.7045 mL
5 mM	0.7541 mL	3.7705 mL	7.5409 mL
10 mM	0.377 mL	1.8852 mL	3.7705 mL
50 mM	0.0754 mL	0.377 mL	0.7541 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

Guoxing, Liu, Hang, et al. Effect of Lysosomotropic Polyamineoxidase Inhibitor MDL-72527 on Platelet Activation. [J]. Cellular Physiology & Biochemistry International Journal of Experimental Cellular Physiology Biochemistry & Pharmacology, 2016.