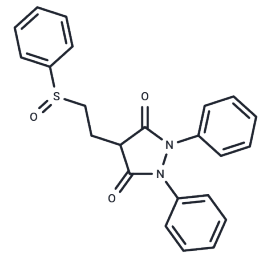


Sulfinpyrazone

Chemical Properties

CAS No. :	57-96-5
Formula:	C ₂₃ H ₂₀ N ₂ O ₃ S
Molecular Weight:	404.48
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	Sulfinpyrazone (NSC-75925) is a uricosuric drug that is used to reduce the serum urate levels in gout therapy. It lacks anti-inflammatory, analgesic, and diuretic properties.
Targets(IC50)	Endogenous Metabolite, COX
In vivo	Sulfinpyrazone exerts significant electrophysiologic actions under various experimental conditions. It raises the ventricular fibrillation threshold as well as the mid diastolic threshold and prolongs the effective refractory period. In the acutely ischemic heart, it attenuates the effect of coronary occlusion on the ventricular fibrillation threshold but has no effect after reperfusion. A protective influence of the drug is also evident during sympathetic humoral stimulation with norepinephrine. The antifibrillatory effect of sulfinpyrazone is additive to the changes elicited by beta adrenergic blockade with practolol or cardiac membrane stabilization with lidocaine[1].

Solubility Information

Solubility	Ethanol: 64 mg/mL (158.23 mM), Sonication is recommended. DMSO: 250 mg/mL (618.08 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (24.72 mM), Solution. 10% DMSO+90% Saline: < 10 mg/mL (24.72 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4723 mL	12.3616 mL	24.7231 mL
5 mM	0.4945 mL	2.4723 mL	4.9446 mL
10 mM	0.2472 mL	1.2362 mL	2.4723 mL
50 mM	0.0494 mL	0.2472 mL	0.4945 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

- Raeder EA, et al. Am J Cardiol. 1982, 50(2):271-275.
Rosenberg JC, et al. Arch Surg. 1975, 110(8):980-983.

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