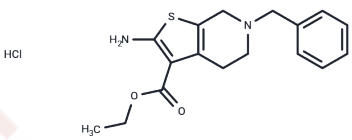
Data Sheet (Cat.No.T4313)

TargetMol

Tinoridine hydrochloride

Chemical Properties



CAS No. :	25913-34-2
Formula:	C17H21ClN2O2S
Molecular Weight:	352.88
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	Tinoridine hydrochloride (Y-3642 hydrochloride) is a non-steroidal anti-inflammatory drug. Tinoridine hydrochloride (5-100 μM), produced a concentration-dependent inhibition on the simultaneous increases in lipid peroxide formation and renin release induced by 50 μM ascorbic acid in the renin granule fraction. On the other hand, indomethacin, hydrocortisone, and prednisolone, which had no ability to inhibit the lipid peroxidation in the renin granule fraction, did not influence the release of renin from the granules. These results suggest that tinoridine suppresses renin release by inhibiting the oxidative disintegration of membranes of renin granules.
Targets(IC50)	Glutathione Peroxidase,COX

Solubility Information

Solubility	DMSO: 12.5 mg/mL (35.42 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: 1 mg/mL (2.83 mM),Sonication is recommended. *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	2.8338 mL	14.1691 mL	28.3382 mL
5 mM	0.5668 mL	2.8338 mL	5.6676 mL
10 mM	0.2834 mL	1.4169 mL	2.8338 mL
50 mM	0.0567 mL	0.2834 mL	0.5668 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

O Shimada, et al. Hydroxyl radical scavenging action of tinoridine. Agents Actions. 1986 Nov;19(3-4):208-14.
Yasuda H, et al. The protective effect of tinoridine against carbon tetrachloride hepatotoxicity. Toxicol Appl Pharmacol. 1980 Mar 15;52(3):407-13.