Data Sheet (Cat.No.T1197)

TargetMol

Trimebutine maleate

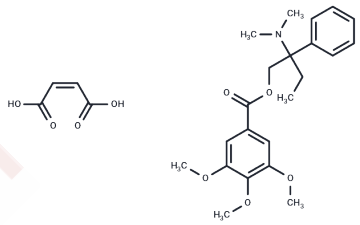
Chemical Properties

CAS No. : 34140-59-5

Formula: C26H33NO9

Molecular Weight: 503.55

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	Trimebutine maleate (Polibutin) is a weak mu-opioid agonist and has antimuscarinic effects. Trimebutine is an agonist of peripheral mu, delta, and kappa opiate receptors served as a spasmolytic drug for therapy of both chronic and acute abdominal pain.
Targets(IC50)	Apoptosis,ERK,Calcium Channel,NF-κB,Opioid Receptor,OCT,Akt,IRAK,JNK,Potassium Channel,TLR

Solubility Information

Solubility	DMSO: 55 mg/mL (109.22 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: 2 mg/mL (3.97 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	1.9859 mL	9.9295 mL	19.859 mL
5 mM	0.3972 mL	1.9859 mL	3.9718 mL
10 mM	0.1986 mL	0.993 mL	1.9859 mL
50 mM	0.0397 mL	0.1986 mL	0.3972 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

Tan W, et al. Arch Pharm Res. 2011 Jun;34(6):979-85.

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