Product Data Sheet

Product Name: Carpaine
Cat. No.: GC35611

Chemical Properties

Cas. No.	3463-92-1		
SMILES	O=C(CCCCCCC[C@@]1([H])N[C@@H](C)[C@@](CC1)([H])O2)O[C@](CC3)([H])[C@H](C)N[C@]3([H])CCCCCCCC2=O		
Formula	$C_{28}H_{50}N_2O_4$	M.Wt	478.71
Solubility	Chloroform: 10 mg/ml,DMF: 1,DMSO: 1 mg/ml,Ethanol: 10 mg/ml,Ethanol:PBS (pH 7.2) (1:4): 0.2 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Carpaine		

Background

Carpaine is an alkaloid isolated from Carica papaya Linn with anti-thrombocytopenic activity, exhibits potent activity in sustaining platelet counts with no acute toxicity[1].Carpaine has anti-plasmodial activity to prevent malaria[2].Carpaine affects the myocardium directly, it reduces cardiac output, stroke volume, stroke work, and cardiac power in rat, which has been studied for its cardiovascular effects[3].

[1]. Zunjar V, et al. Antithrombocytopenic activity of carpaine and alkaloidal extract of Carica papaya Linn. leaves in busulfan induced thrombocytopenic Wistar rats. J Ethnopharmacol. 2016 Apr 2;181:20-5. [2]. Julianti T, et al. Quantification of the antiplasmodial alkaloid carpaine in papaya (Carica papaya) leaves. Planta Med. 2014 Aug;80(13):1138-42. [3]. Hornick CA, et al. Effect of carpaine, a papaya alkaloid, on the circulatory function in the rat. Res Commun Chem Pathol Pharmacol. 1978 Nov;22(2):277-89.

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