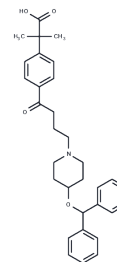


Carebastine

Chemical Properties

CAS No. :	90729-42-3
Formula:	C ₃₂ H ₃₇ N ₃ O ₄
Molecular Weight:	499.64
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	Carebastine, the active metabolite of Ebastine, is an antagonist of the histamine H1 receptor.
Targets(IC50)	Histamine Receptor, MIF
In vitro	Carebastine inhibits VEGF-induced HPAEC and HUVEC proliferation, migration, and angiogenesis in a dose-dependent manner [1]. Carebastine suppresses the expression of macrophage migration inhibitory factor [2].

Solubility Information

Solubility	DMSO: 4.7 mg/mL (9.41 mM), Sonication is recommended. DMF: 24 mg/mL (48.03 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.48 mg/mL (0.96 mM), Solution. <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	2.0014 mL	10.0072 mL	20.0144 mL
5 mM	0.4003 mL	2.0014 mL	4.0029 mL
10 mM	0.2001 mL	1.0007 mL	2.0014 mL
50 mM	0.040 mL	0.2001 mL	0.4003 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

De Luisi A, et al. Anti-angiogenic activity of carebastine: a plausible mechanism affecting airway remodelling. *Eur Respir J.* 2009 Oct;34(4):958-66.

Zhao Y, et al. Carebastine, an H1-receptor antagonist, suppresses the expression of macrophage migration inhibitory factor. *Clin Exp Dermatol.* 2008 Nov;33(6):785-7.

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