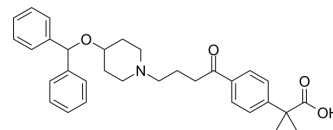


Carebastine

Cat. No.:	HY-121356		
CAS No.:	90729-42-3		
Molecular Formula:	C ₃₂ H ₃₇ NO ₄		
Molecular Weight:	499.64		
Target:	Histamine Receptor; Macrophage migration inhibitory factor (MIF)		
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMF : 25 mg/mL (50.04 mM; Need ultrasonic and warming)
 DMSO : 2 mg/mL (4.00 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: 2.5 mg/mL (5.00 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: 2.5 mg/mL (5.00 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (5.00 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Carebastine is the active metabolite of Ebastine. Carebastine is a histamine H1 receptor antagonist. Carebastine inhibits VEGF-induced HUVEC and HPAEC proliferation, migration and angiogenesis in a dose-dependent manner^[1]. Carebastine suppresses the expression of macrophage migration inhibitory factor^[2].

IC₅₀ & Target

H₁ Receptor

REFERENCES

- [1]. 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.
- [2]. 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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Caution: Product has not been fully validated for medical applications. For research use only.

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