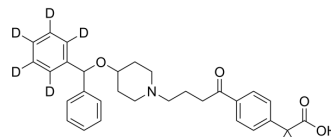


Carebastine-d₅

Cat. No.:	HY-121356S
CAS No.:	1189661-02-6
Molecular Formula:	C ₃₂ H ₃₂ D ₅ NO ₄
Molecular Weight:	504.67
Target:	Histamine Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Carebastine-d ₅ is the deuterium labeled Carebastine. Carebastine is the active metabolite of Ebastine. Carebastine is a histamine H ₁ 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	H ₁ Receptor
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. 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.
- [3]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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