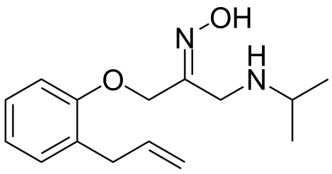
(E)-Alprenoxime

Cat. No.:	HY-101804
CAS No.:	125720-84-5
Molecular Formula:	$C_{15}H_{22}N_2O_2$
Molecular Weight:	262.35
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(E)-Alprenoxime is the isomer of the Alprenoxime. Alprenoxime is a site-activated ocular β-blocker.
IC_{50} & Target	β blocker[1]
In Vivo	The purpose of the present study is to explore the pharmacological significance of Alprenoxime peripheral /βblocking activity in a non-rodent animal model. Interspecies scaling considerations predict that the doses selected in this study (1 and 5 mg/kg) are pharmacologically comparable or greater than doses used in rodent studies (2 and 6 mg/kg). More importantly, the prolonged ocular antihypertensive effects that are shown with 1% ophthalmic solutions indicate that the i.v. dose tested in the present study is likely to be more than two orders of magnitude greater than probable therapeutic doses[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration [1]	Dogs[1] Seven adult mongrel dogs (20-27 kg) are used in this study. A loading dose of Alprenoxime is administered (1 mg/kg, i.v.) followed by Alprenoxime infusion (150 μg/kg/min) after recording baseline electrophysiological parameters. Cardiac electrophysiological testing is then repeated 10 min after beginning Alprenoxime infusion. Alprenoxime (1 or 5 mg/kg, i.v.) is injected as a bolus injection and cardiac electrophysiological response is monitored. Different dogs with isoproterenol induced tachycardia are evaluated at each Alprenoxime dose. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Polgar P, et al. Minimal cardiac electrophysiological activity of alprenoxime, a site-activated ocular beta-blocker, in dogs. Life Sci. 1995;56(14):1207-13.

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

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