Nifenalol hydrochloride

Cat. No.: HY-100952

CAS No.: 5704-60-9

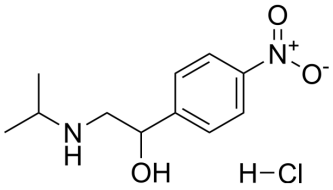
Molecular Formula: $C_{11}H_{17}ClN_2O_3$

Molecular Weight: 260.72

Target: Adrenergic Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (958.88 mM; Need ultrasonic)
H_2O : 50 mg/mL (191.78 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.8355 mL	19.1777 mL	38.3553 mL
5 mM	0.7671 mL	3.8355 mL	7.6711 mL
10 mM	0.3836 mL	1.9178 mL	3.8355 mL

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

BIOLOGICAL ACTIVITY

Description

Nifenalol hydrochloride is a β-adrenergic receptor antagonist. Nifenalol hydrochloride induces the Early Afterdepolarization (EAD) effect. EAD is a phenomenon in cardiac electrophysiology that usually occurs during an action potential in ventricular muscle cells and can lead to arrhythmia. The EAD effect of Nifenalol hydrochloride can be blocked by Tetrodotoxin. Nifenalol hydrochloride is used in the study of conditions such as irregular heartbeat or high blood pressure[1].

IC_{50} & Target

β-adrenoceptor

REFERENCES

[1]. Lemmens-Gruber R, et al. Arrhythmogenic effect of beta-adrenoceptor-blocking drugs in Purkinje fibres of guinea-pig hearts. Arch Int Pharmacodyn Ther. 1996 Jan-Feb;331(1):46-58.

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

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