Flavoxate hydrochloride

Cat. No.: HY-B0549A

CAS No.: 3717-88-2

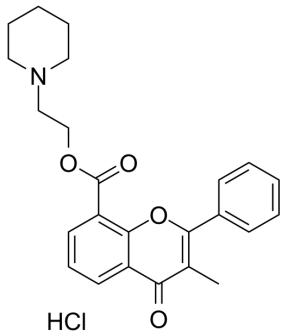
Molecular Formula: $C_{24}H_{26}ClNO_4$

Molecular Weight: 427.92

Target: mAChR; Calcium Channel; Phosphodiesterase (PDE)

Pathway: GPCR/G Protein; Neuronal Signaling; Membrane Transporter/Ion Channel; Metabolic Enzyme/Protease

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



SOLVENT & SOLUBILITY

In Vitro

H_2O : 5 mg/mL (11.68 mM; Need ultrasonic)
DMSO : 3.33 mg/mL (7.78 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.3369 mL	11.6844 mL	23.3689 mL
5 mM	0.4674 mL	2.3369 mL	4.6738 mL
10 mM	0.2337 mL	1.1684 mL	2.3369 mL

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

BIOLOGICAL ACTIVITY

Description

Flavoxate hydrochloride is a potent and competitive phosphodiesterase (PDE) inhibitor. Flavoxate hydrochloride is an antispasmodic agent and muscarinic mAChR antagonist. Flavoxate hydrochloride shows moderate calcium antagonistic activity and local anesthetic effect. Flavoxate hydrochloride can be used for the research of overactive bladder (OAB) and lower urinary tract infections[1].

REFERENCES

[1]. Dansette, P.M., et al. HMG-CoA reductase activity in human liver microsomes: comparative inhibition by statins. Exp Toxicol Pathol, 2000. 52(2): p. 145-8.

[2]. Kimura, Y., et al., Mechanisms of the suppression of the bladder activity by flavoxate. Int J Urol, 1996. 3(3): p. 218-27.

[3]. Oka, M., et al., Brain pertussis toxin-sensitive G proteins are involved in the flavoxate hydrochloride-induced suppression of the micturition reflex in rats. Brain Res, 1996. 727(1-2): p. 91-8.

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

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