

Flavoxate (hydrochloride)

Catalog No: tcsc2652



Available Sizes

Size: 100mg

Size: 1g



Specifications

CAS No:

3717-88-2

Formula:

$C_{24}H_{26}ClNO_4$

Pathway:

Neuronal Signaling;GPCR/G Protein

Target:

mAChR;mAChR

Purity / Grade:

>98%

Solubility:

DMSO : 3.33 mg/mL (7.78 mM; Need ultrasonic); H₂O : 5 mg/mL (11.68 mM; Need ultrasonic)

Alternative Names:

Rec-7-0040;DW61

Observed Molecular Weight:

427.92

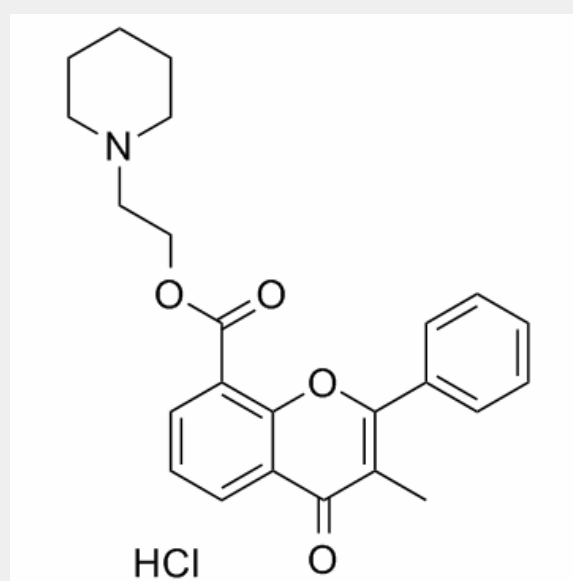
Product Description

Flavoxate Hydrochloride(DW-61 Hydrochloride) is a muscarinic AChR antagonist used in various urinary syndromes and as an antispasmodic.

Target: mAChR

Flavoxate displaces [³H]nitrendipine on the Ca²⁺ channels binding sites with IC₅₀ of 254 μ M [1]. Flavoxate (>10 μ M) suppresses carbachol-induced contractions in isolated rat detrusor strips with pD value of 4.55. Flavoxate (>10 μ M) suppresses Ca²⁺-induced contractions in isolated rat detrusor strips with pIC₅₀ value of 4.92 [2]. Flavoxate (0.01 μ M 10 μ M) inhibits CAMP formation in a concentration-dependent manner in membranes from the rat striatum and cerebral cortex, an action which is completely abolished by pretreating the membranes with pertussis toxin (PTX) [3].

Flavoxate (10mg/kg) suppresses both the an initial, rapidly rising phasic contraction (phase 1) and the tonic contraction (phase 2) contractions to the same extent in rats. Flavoxate (10mg/kg) abolishes the bladder contractions without causing any change in the amplitude of the contractions in rats. Flavoxate (3 mg/kg) abolishes the efferent neural activity and the associated bladder contractions for about 10 minutes without changing the baseline vesical pressure in rats. ICV-injected (50 to 200 μ g/rat) or IT-injected (100 to 200 μ g/rat) Flavoxate abolishes rhythmic bladder contractions during and after injection for five to 15 minutes in a dose-dependent manner in rats [2]. Flavoxate (3 mg/kg, i.v.) abolishes rhythmic bladder contractions and the maximal intervals of voiding contractions is 7.20 min [3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!