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Zuschläge

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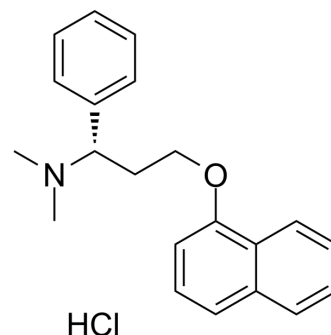
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Dapoxetine hydrochloride

Cat. No.:	HY-B0304A
CAS No.:	129938-20-1
Molecular Formula:	C ₂₁ H ₂₄ ClNO
Molecular Weight:	341.87
Target:	Serotonin Transporter
Pathway:	Neuronal Signaling
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

H₂O : 100 mg/mL (292.51 mM; Need ultrasonic)
DMSO : ≥ 32 mg/mL (93.60 mM)
* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.9251 mL	14.6254 mL	29.2509 mL
	5 mM		0.5850 mL	2.9251 mL	5.8502 mL
	10 mM		0.2925 mL	1.4625 mL	2.9251 mL

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

BIOLOGICAL ACTIVITY

Description

Dapoxetine (LY-210448) hydrochloride is an orally active and selective serotonin reuptake inhibitor (SSRI). Dapoxetine hydrochloride can be used for the research of premature ejaculation (PE)^[1].

IC₅₀ & Target

Target: serotonin reuptake^[1]

In Vitro

Dapoxetine hydrochloride binds to 5-HT, norepinephrine, and dopamine reuptake transporters and inhibits 5-HT, norepinephrine, and dopamine uptake with an order of potency: 5-HT > norepinephrine > dopamine. Dapoxetine hydrochloride inhibits the uptake of [³H]5-HT by the 5-HT reuptake transporter with a value of 1.12 nM, and Dapoxetine inhibits the uptake of [³H]norepinephrine into cells utilizing the norepinephrine reuptake transporter and uptake of [³H]dopamine by the dopamine reuptake transporter with IC₅₀ values of 202 nM and 1720 nM, respectively.^[1] MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Dapoxetine hydrochloride (oral gavage; 1-10 mg/kg; once daily) significantly inhibits testosterone mediated increase in the prostate weight and relative prostate weight and attenuates testosterone-induced prostatic hyperplasia in rats^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Adult male Wistar rats ^[2]
Dosage:	1 mg/kg, 5 mg/kg, 10 mg/kg
Administration:	Oral gavage; 1-10 mg/kg; once daily
Result:	Reverted most of the changes made by testosterone injection

CUSTOMER VALIDATION

- Molecules. 2023 Dec 17;28(24):8142.

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REFERENCES

[1]. Muammer Kendirci, et al. Dapoxetine, a novel selective serotonin transport inhibitor for the treatment of premature ejaculation. Ther Clin Risk Manag. 2007 Jun;3(2):277-89.

[2]. Rabab H Sayed, et al. Dapoxetine attenuates testosterone-induced prostatic hyperplasia in rats by the regulation of inflammatory and apoptotic proteins. Toxicol Appl Pharmacol. 2016 Nov 15;311:52-60.

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

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