Tamsulosin hydrochloride

Cat. No.: HY-B0661A

CAS No.: 106463-17-6

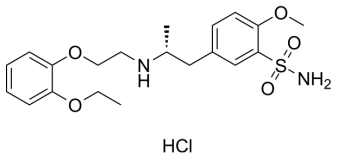
Molecular Formula: $C_{20}H_{29}ClN_2O_5S$

Molecular Weight: 444.97

Target: Adrenergic Receptor; Endogenous Metabolite

Pathway: GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease

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 : 62.5 mg/mL (140.46 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2473 mL	11.2367 mL	22.4734 mL
	5 mM	0.4495 mL	2.2473 mL	4.4947 mL
	10 mM	0.2247 mL	1.1237 mL	2.2473 mL

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

BIOLOGICAL ACTIVITY

Description

Tamsulosin hydrochloride ((R)-(-)-YM12617) is an inhibitor of α_1-adrenergic receptor. Tamsulosin hydrochloride is used for the research of prostatic hyperplasia. Tamsulosin hydrochloride attenuates abdominal aortic aneurysm growth in animal models[1].

IC_{50} & Target

α1-adrenergic receptor

REFERENCES

[1]. Christopher Chapple, et al. Tamsulosin: an overview. World J Urol. 2002 Apr;19(6):397-404.

[2]. William G. Montgomery, BA, et al. Tamsulosin Attenuates Abdominal Aortic Aneurysm Growth. Surgery. 2018 Nov; 164(5): 1087-1092.

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

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