
Product Data Sheet

Product Name: Tamsulosin hydrochloride

Cat. No.: GC50035

Chemical Properties

Cas. No. 106463-17-6

SMILES C[C@@H](NCCOC2=CC=CC=C2OCC)CC1=CC=C(OC)C(S(=O)(N)=O)=C1.Cl

Formula $C_{20}H_{28}N_2O_5S.HCl$ M.Wt 444.97

Solubility DMSO: 2 mg/ml, DMSO:PBS (pH 7.2)(1:9): 0.10 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

Selective α 1A-adrenoceptor antagonist (pKi values are 9.97, 9.64 and 8.86 for α 1A, α 1B and α 1D subtypes respectively). Decreases resting maximal urethral pressure with negligible effect on mean arterial blood pressure in vivo.

Garcia-Sainz et al (1995) Alpha 1-adrenoceptor subtype selectivity of tamsulosin: studies using livers from different species. Eur.J.Pharmacol. 289 1 PMID:7781702 |Taguchi et al (1997) Effects of tamsu. metabolites at alpha-1 adrenoceptor subtypes.

J.Pharmacol.Exp.Ther. 280 1 PMID:8996174 |Ohtake et al (2005) Effects of tamsu. on resting urethral pressure and arterial blood pressure in anaesthetized female dogs. J.Pharm.Pharmacol. 58 345

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

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