
Product Data Sheet

Product Name: Tandospirone hydrochloride

Cat. No.: GC50031

Chemical Properties

Cas. No. 99095-10-0

SMILES [H][C@]13[C@](C(N(CCCCN4CCN(C5=NC=CC=N5)CC4)C3=O)=O)([H])[C@@H]2CC[C@H]1C2.Cl

Formula	C ₂₁ H ₂₉ N ₅ O ₂ .HCl	M.Wt	419.95
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Solubility	Soluble in DMSO	Storage	Store at -20°C
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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**

5-HT_{1A} receptor partial agonist (K_i = 27 nM) that displays selectivity over 5-HT₂, 5-HT_{1C}, α₁, α₂, D₁ and D₂ receptors (K_i values ranging from 1300 - 41000 nM). Inactive at 5-HT uptake sites, 5-HT_{1B}, β-adrenergic, muscarinic and benzodiazepine receptors. Displays anxiolytic activity.

Hamik et al (1990) Analysis of tandospirone (SM-3997) interactions with neurotransmitter receptor binding sites. Biol.Psychiatry 28 99 PMID:1974152 |Pollard et al (1992) Effects of tandospirone in three behavioral tests for anxiolytics. Eur.J.Pharmacol. 221 297 PMID:1358655 |Matsubara et al (2006) Tandospirone, a 5-HT_{1A} agonist, ameliorates movement disorder via non-D₁ systems in rats with unilateral 6-hydroxyDA-generated lesions. Brain Res. 1112 126 PMID:16884702

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

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