

Product Data Sheet

Product Name: Tiagabine hydrochloride hydrate

Cat. No.: GC37788

Chemical Properties

Cas. No. 145821-57-4

SMILES O=C([C@H]1CN(CC/C=C(C2=C(C)C=CS2)/C3=C(C)C=CS3)CCC1)O.[H]Cl.O

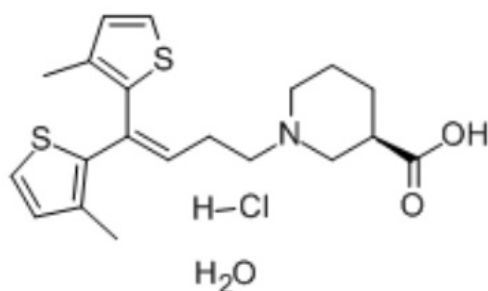
Formula $C_{20}H_{28}ClNO_3S_2$ M.Wt 430.02

Solubility Soluble in DMSO 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

Tiagabine hydrochloride hydrate is a potent and selective GABA uptake inhibitor, used as an anticonvulsant agent, with IC₅₀s of 67, 446 and 182 nM for [³H]GABA uptake in Synaptosomes, Neurons and Glia, respectively[1].

[1]. Braestrup C, et al. (R)-N-[4,4-bis(3-methyl-2-thienyl)but-3-en-1-yl]nipecotic acid binds with high affinity to the brain gamma-aminobutyric acid uptake carrier. J Neurochem. 1990 Feb;54(2):639-47.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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