

Product Data Sheet

Product Name: Anisodamine

Cat. No.: GC17736

Chemical Properties

Cas. No. 55869-99-3

Chemical Name α S-(hydroxymethyl)-benzeneacetic acid, (1R,3S,5R,6S)-6-hydroxy-8-methyl-8-azabicyclo[3.2.1]oct-3-yl ester

SMILES O=C([C@H](CO)C1=CC=CC=C1)O[C@@H]2C[C@@H](N3C)[C@@H](O)C[C@@H]3C2

Formula $C_{17}H_{23}NO_4$

M.Wt 305.4

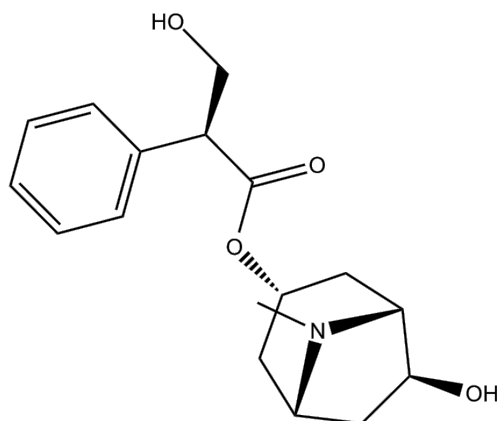
Solubility 25mg/mL in ethanol or DMF,
20mg/mL in DMSO, 13.65mg/mL in
Water

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

Anisodamine is a natural tropane alkaloid shown to be a weak antagonist of α 1-adrenoceptors, blocking WB-4101 and clonidine binding in brain membrane preparations with pKi values of 2.63 and 1.61, respectively.[1] Anisodamine also has antioxidant effects that may protect against free radical-

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

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induced cellular damage.[2] Anisodamine is predominantly found in the roots of *A. tanguticus*, which is used in traditional Chinese medicine for topical applications.[3]

Reference:

- [1]. Varma, D.R., and Yue, T.L. Adrenoceptor blocking properties of atropine-like agents anisodamine and anisodine on brain and cardiovascular tissues of rats. *British Journal of Pharmacology* 87(3), 587-594 (1986).
- [2]. Poupko, J.M., Baskin, S.I., and Moore, E. The pharmacological properties of anisodamine. *Journal of Applied Toxicology* 27(2), 116-121 (2007).
- [3]. Ma, L., Gu, R., Tang, L., et al. Important poisonous plants in tβ ethnomedicine. *Toxins (Basel)* 7(1), 138-155 (2015).

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