PRODUCT INFORMATION



Cevimeline (hydrochloride)

Item No. 17802

CAS Registry No.: 107220-28-0

Formal Name: (2'R,3R)-rel-2'-methyl-spiro[1-

> azabicyclo[2.2.2]octane-3,5'-[1,3] oxathiolane], monohydrochloride

Synonyms: AF 102B, SNI 2011, SNK 508

C₁₀H₁₇NOS ● HCI MF:

FW: 235.8 ≥95% **Purity:**

Supplied as: A crystalline solid

Storage: -20°C Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

• HCI



Cevimeline (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the cevimeline (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Cevimeline (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of cevimeline (hydrochloride) in ethanol and DMSO is approximately 5 mg/ml and approximately 3 mg/ml in DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of cevimeline (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of cevimeline (hydrochloride) in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Cevimeline is a muscarinic receptor agonist (EC_{50} s = 23, 48, and 63 nM for M_1 , M_3 , and M_5 , respectively, and >1 μ M for M₂ and M₂). It stimulates secretion by salivary glands and is useful in ameliorating xerostomia (dry mouth).2,3

References

- 1. Heinrich, J.N., Butera, J.A., Carrick, T., et al. Pharmacological comparison of muscarinic ligands: Historical versus more recent muscarinic M1-preferring receptor agonists. Eur. J. Pharmacol. 605(1-3), 53-56 (2009).
- Kahn, S.T. and Johnstone, P.A. Management of xerostomia related to radiotherapy for head and neck cancer. Oncology (Williston Park) 19(14), 1827-1832 (2005).
- Ramos-Casals, M., Tzioufas, A.G., Stone, J.H., et al. Treatment of primary Sjögren syndrome: A systematic review. JAMA 304(4), 452-460 (2010).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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