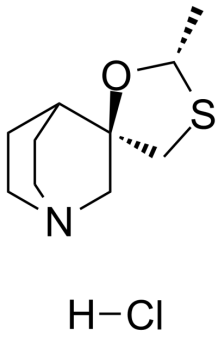
trans-Cevimeline hydrochloride

Cat. No.:	HY-116459
CAS No.:	107220-29-1
Molecular Formula:	$C_{10}H_{18}ClNOS$
Molecular Weight:	235.77
Target:	mAChR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Trans-Cevimeline (AF102A) (hydrochloride), as a trans-isomer of AF102B, is a M1 selective cholinergic agonist. Trans-Cevimeline (AF102A) (hydrochloride) can be used for the research of Alzheimer's disease[1].
IC_{50} & Target	M1[1]
In Vivo	AF102A (1 mg/kg; i.p.) reverses cognitive impairments in a step-through passive avoidance task[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Rats[1]
Dosage:	1 mg/kg
Administration:	I.p.
Result:	Reversed cognitive impairments in a step-through passive avoidance task.

REFERENCES

[1]. Fisher A, et al. (+-)-cis-2-methyl-spiro(1,3-oxathiolane-5,3')quinuclidine, an M1 selective cholinergic agonist, attenuates cognitive dysfunctions in an animal model of Alzheimer's disease. J Pharmacol Exp Ther. 1991;257(1):392-403.

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