

[Open Peer Review on Qeios](#)

# Tolterodine

National Cancer Institute

## Source

National Cancer Institute. *Tolterodine*. NCI Thesaurus. Code C62083.

A benzhydryl compound and a muscarinic receptor antagonist possessing both antimuscarinic and antispasmodic properties. Both tolterodine and its active metabolite, 5-hydroxymethyltolterodine, competitively blocks muscarinic receptors, thereby inhibiting acetylcholine binding. This antagonistic action results in an increase in residual urine, reflecting an incomplete emptying of the bladder, and a decrease in detrusor pressure, indicating an antimuscarinic action on the lower urinary tract. The 5-hydroxymethyl metabolite appears to contribute significantly to the therapeutic effects.