

Open Peer Review on Qeios

## Doxylamine

National Cancer Institute

## Source

National Cancer Institute. <u>Doxylamine</u>. NCI Thesaurus. Code C61738.

A first generation ethanolamine with antiinflammatory, sedative and antihistamine properties. Doxylamine competitively inhibits the histamine 1 (H1) receptor, thereby preventing the action of endogenous histamine as well as the subsequent release of proinflammatory mediators from basophils and mast cells. This agent acts as an inverse agonist that combines with, and stabilizes the inactive form of the H1-receptor, shifting the H1 receptor equilibrium toward the inactive state. This results in downregulation of nuclear factor-kappaB (NF-kappaB) and NF-kappaB dependent antigen presentation, chemotaxis, as well as expression of cell-adhesion molecules and pro-inflammatory cytokines.

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