

Open Peer Review on Qeios

Proxyphylline

National Cancer Institute

Source

National Cancer Institute. <u>Proxyphylline</u>. NCI Thesaurus. Code C80339.

A methylxanthine and derivative of theophylline. Proxyphylline relaxes smooth muscles, particularly bronchial muscles. This xanthine most likely exerts its effect by inhibiting cAMP or cGMP phosphodiesterases, thereby increasing levels of the second messenger cAMP or cGMP intracellularly. Other mode of actions include an adenosine antagonistic effect on the activity of CD4 lymphocytes and mediator release from mast cells thereby decreasing lung sensitivity to allergens and other substances that cause inflammation. Proxyphylline also acts as a CNS stimulant and exerts a positive chronotropic and inotropic effect on the heart.

Qeios ID: LCD19P · https://doi.org/10.32388/LCD19P