P12

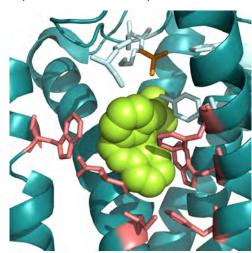
H1 is responsible for severe allergic reactions, such as hay fever.



Crystal structure of H1 complex with doxepin revealed the doxepin binding pocket.

Docking of second-generation antagonists present interactions with the anion binding site.

(Shimamura et al. 2011)





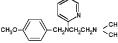


Structural studies of histamine receptor H1

Tian Geng, Alex Cameron, John Barker, So Iwata, and Isabel Moraes

first-generation: low selectivity

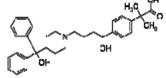




Doxepin

Pyrilamine

second-generation: with unique carboxyl group

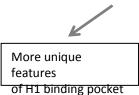


N

Olopatadine

fexofenadine

More need to know?





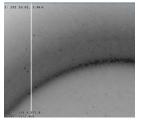
Solid proof of second-generation antagonists interact with anion binding pocket



X-Ray crystal structure determination of H1 with a range of antagonists.

CPM 230612





Crystal of H1/EV5S complex, Tested at Diamond Light Source I24 Best resolution around 4Å

