

MODULATION OF CHEMOSENSORY RECEPTORS AND LIGANDS ASSOCIATED THEREWITH

ABSTRACT

The present invention includes methods for identifying modifiers of chemosensory receptors and their ligands, e.g., by determining whether a test entity is suitable to interact with one or more interacting sites within the Venus flytrap domains of the chemosensory receptors, and modifiers capable of modulating chemosensory receptors and their ligands. The present invention also includes modifiers of chemosensory receptors and their ligands having Formula (I), its subgenus, and specific compounds. Furthermore, the present invention includes ingestible compositions comprising the modifiers of chemosensory receptors and their ligands and methods of using the modifiers of chemosensory receptors and their ligands to enhance the sweet taste of an ingestible composition or treat a condition associated with a chemosensory receptor. In addition, the present invention include processes for preparing the modifiers of chemosensory receptors and their ligands.

Figure 5