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(54) Title: SWEET PROTEIN MUTANTS FROM TRUFFLE

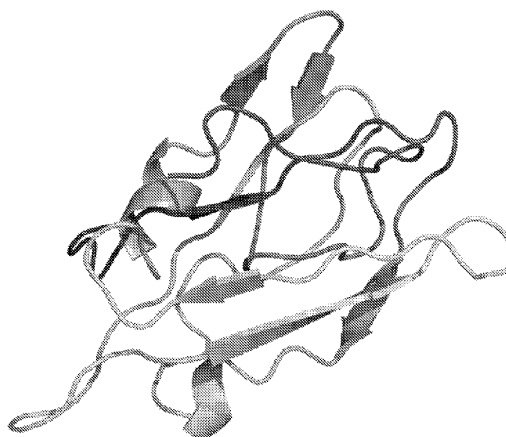


FIGURE 1

(57) Abstract: Newly identified fungal sweet-taste modifying proteins (designated Honey Truffle Sweetener (HTS)), and polynucleotides encoding the proteins are described. Specifically, Myd proteins with sweet taste modulation activity, and the cDNA encoding the same, are described, along with methods for isolating such cDNA and for isolating and expressing such proteins. Also disclosed are sweetening composition which includes the proteins of the invention, and methods to provide improved flavor to a product for oral administration.

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