

Trace amine receptor in GtoPdb v.2025.3

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Abstract

Trace amine-associated receptors were discovered from a search for novel 5-HT receptors [9], where 15 mammalian orthologues were identified and divided into two families. The TA₁ receptor (**nomenclature as agreed by the NC-IUPHAR Subcommittee for the Trace amine receptor [59]**) has affinity for the endogenous trace amines [tyramine](#), [β-phenylethylamine](#) and [octopamine](#) in addition to the classical amine [dopamine](#) [9]. Emerging evidence suggests that TA₁ is a modulator of monoaminergic activity in the brain [95] with TA₁ and dopamine D₂ receptors shown to form constitutive heterodimers when co-expressed [30]. In addition to trace amines, receptors can be activated by amphetamine-like psychostimulants, and endogenous thyronamines.

Contents

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Trace amine receptor

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Introduction to Trace amine receptor

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Receptors

TA₁ receptor

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=364>

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