

Trace amine receptor (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database

Tom I. Bonner¹, Anthony P. Davenport², Stephen M. Foord³, Janet J. Maguire² and William A.E. Parker²

1. National Institute of Mental Health, USA
2. University of Cambridge, UK
3. GlaxoSmithKline, UK

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 [53]**) 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 [90] with TA₁ and dopamine D₂ receptors shown to form constitutive heterodimers when co-expressed [28]. In addition to trace amines, receptors can be activated by amphetamine-like psychostimulants, and endogenous thyronamines.

Contents

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