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HTR2A 2 Allele

National Cancer Institute

Source

National Cancer Institute. *HTR2A 2 Allele*. NCI Thesaurus. Code C45686.

HTR2A-T Allele is a variant form of 20-kb 3-exon human HTR2A Gene (GPCR1/5HT2 Family), which encodes Serotonin 5-HT-2A Receptor, a conserved integral membrane 5-HT/serotonin receptor protein involved in tracheal smooth muscle contraction, bronchoconstriction, and control of aldosterone production by association with G proteins that activate a PI-calcium second messenger system. 5-HT is a biogenic hormone that affects specific receptors as a neurotransmitter, hormone, or mitogen. HTR2A contains several polymorphic sites. Different alleles differ in the concentration of RNA and protein product of 5HTR2A. HTR2A-T Allele contains a single-nucleotide polymorphism (102 C>T) in an intron and is expressed at a higher level than the 102 T>C allele.