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The license may not give you all of the permissions you need to use the material. [12] The word "euphoria" is derived from the Ancient Greek εὐφροσύνη meaning "well" and φρόνημα meaning "to hear" [13][14] It is semantically related to dysphoria. A 1706 English dictionary defines euphoria as "The wearing of the Operation of a Medicine, which the patient finds himself eased or relieved by". [15] During the 1860s, the English physician Thomas Laycock described euphoria as the feeling of bodily well-being and hopefulness; he noted its misplaced presentation in the final stage of some terminal illnesses and attributed such euphoria to neurological dysfunction.[16] Sigismund Freud's 1884 monograph Über Coca described this (own) consumption of cocaine producing "the normal euphoria of a healthy person".[17] while about 1890 the German neuropsychiatrist Carl Wernicke lectured about the "abnormal euphoria" in patients with mania.[18] A 1903 article in The Boston Daily Globe refers to euphoria as "pleasant excitement" and "the sense of ease and well-being".[19] In 1920 Popular Science magazine described euphoria as "a high sounding name" meaning "feeling fit": normally making life worth living, motivating drug use, and ill formed in certain mental illnesses.[20] Robert S. Woodworth's 1921 textbook Psychology: A study of mental life, describes euphoria as an organic state which is the opposite of fatigue, and "means about the same as feeling good." [21] In 1940, The Journal of Psychology defined euphoria as "a state of general well being ... and pleasantly toned feeling." [22] A decade later, finding ordinary feelings of well being difficult to evaluate, American addiction researcher Haris Isbell redefined euphoria as behavioral changes and objective signs typical of morphine.[23] However, in 1957 British pharmacologist D. A. Cahal did not regard opioid euphoria as medically undesirable but an effect which "enhance[s] the value of a major analgesic." [24] The 1977 edition of A Concise Encyclopaedia of Psychiatry called euphoria "a mood of contentment and well-being," with pathologic associations when used in a psychiatric context. As a sign of cerebral disease, it was described as bland and out of context, representing an inability to experience negative emotion.[25] In the 21st century, euphoria is generally defined as a state of great happiness, well-being and excitement, which may be normal, or abnormal and inappropriate when associated with psychotic drugs, manic states, or brain disease or injury.[26] Main article: Reward system Pleasure centers Hedonic hotspots are functionally interrelated neural substrates/structures that (intrinsically or extrinsically) generate the feelings of pleasure. Activation of one hedonic hotspot involves the stimulation of the others. Inhibition of one hedonic hotspot blunts the activation the other ones.[10][11] Therefore, the simultaneous activation of every hedonic hotspot within the reward system is probably necessary for generating the sensation of euphoria.[12] Many different types of stimuli can induce euphoria, including psychoactive drugs, natural rewards, and social activities.[11][27][14] [5] Affective disorders such as unipolar mania or bipolar disorder can involve euphoria as a symptom.[5] This section is an excerpt from Neurobiological effects of physical exercise § Exercise-induced euphoria.[edit] Continuous exercise can produce a transient state of euphoria - an emotional state involving the experience of pleasure and feelings of profound contentment, elation, and well-being - which is colloquially known as a "runner's high" in distance running or a "rower's high" in rowing.[28][29][30][31] Not everyone experiences this.[32] Further information: Frisson Euphoria can occur as a result of dancing to music, music-making, and listening to emotionally arousing music.[41][33][34] Neuroimaging studies have demonstrated that the reward system plays a central role in mediating music-induced pleasure.[34][35] Pleasurable emotionally arousing music strongly increases dopamine neurotransmission in the dopaminergic pathways that project to the striatum (i.e., the mesolimbic pathway and nigrostriatal pathway).[33][34][35] Approximately 3% of the population experiences a phenomenon termed "musical anhedonia", in which individuals do not experience pleasure from listening to emotionally arousing music despite having the ability to perceive the intended emotion that is conveyed in passages of music.[35] A clinical study from January 2019 that assessed the effect of a dopamine precursor (levodopa), dopamine antagonist (risperidone), and a placebo on reward responses to music - including the degree of pleasure experienced during musical chills, as measured by changes in electrodermal activity as well as subjective ratings - found that the manipulation of dopamine neurotransmission bidirectionally regulates pleasurable responses to music.[36] [60] Another study found that dopamine euphoria is induced by music only in individuals with high levels of dopamine euphoria, but not in individuals with low levels of dopamine euphoria. [61] [62] [63] [64] [65] [66] [67] [68] [69] [70] [71] [72] [73] [74] [75] [76] [77] [78] [79] [80] [81] [82] [83] [84] [85] [86] [87] [88] [89] [90] [91] [92] [93] [94] [95] [96] [97] [98] [99] [100] [101] [102] [103] [104] [105] [106] [107] [108] [109] [110] [111] [112] [113] [114] [115] [116] [117] [118] [119] [120] [121] [122] [123] [124] [125] [126] [127] [128] [129] [130] [131] [132] [133] [134] [135] [136] [137] [138] [139] [140] [141] [142] [143] [144] [145] [146] [147] [148] [149] [150] [151] [152] [153] [154] [155] [156] [157] [158] [159] [160] [161] [162] [163] [164] [165] [166] [167] [168] [169] [170] [171] [172] [173] [174] [175] [176] [177] [178] [179] [180] [181] [182] [183] [184] [185] [186] [187] [188] [189] [190] [191] [192] [193] [194] [195] [196] [197] [198] [199] [200] [201] [202] [203] [204] [205] [206] [207] [208] [209] [210] [211] [212] [213] [214] [215] [216] [217] [218] [219] [220] [221] [222] [223] [224] [225] [226] [227] [228] [229] [230] [231] [232] [233] 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Serotonin-2 Receptor Agonists Produce Anti-inflammatory Effects through Functionally Selective Mechanisms That Involve the Suppression of Disease-Induced Arginase I Expression". ACS Pharmacology & Translational Science, 7(2): 478–492, doi:10.1021/acspstc.3c00297. PMC 10683441. PMID 38357283.

The effects of (R)-DOTFM were examined in the head-twitch response (HTR) assay. (R)-DOTFM produced a strong HTR with a potent ED₅₀ of 0.60 μmol/kg. These values are equivalent to (R)-DOI, as previously determined.[^] Gunther M (26 October 2022). "What's the Future of Eleusis Therapeutics After Acquisition by Beckley Psytech?". Lucid News - Psychedelics, Consciousness Technology, and The Future of Wellness. Retrieved 17 February 2025.[^]

"Beckley Psytech Strengthens Pipeline and Development Team With Acquisition of Eleusis Therapeutics Limited". Psychodelic Alpha. 24 November 2022. Archived from the original on 17 February 2025. C2-BU = Isomer design PDCDASST [3]: An interview with Dr. Charles D. Nichols (November 14, 2024), available at: [https://www.beckleypsy.com/newsroom/beckley-acquires-eleusis-therapeutics-limited-2024-november-14](#). DOI:10.1021/acscimedchem.3c01963. PMID 38593423.

Chemical and physical dataFormulaC14H23NO2Molar mass337.343 g·mol−1SDMI[Smiles]Interactive imageSMILESCCCC(C)=CC(C=C)(O)CCCOCInChIInChI=1S/C14H23NO2/c1-4-5-6-11-19-14/[17]-31(-T)-10(-13)[13]-11(-6)-2(-9)-10H,4-,8-,15H2,-1-H3KeyK:WVGDKSIQKRPRV-UHHFFAAYSA-NC2-BU, also known as 2,5-dimethoxy-4-butylphenethylamine, is a chemical compound of the phenethylamine and 2C families.[1] It has been said by Daniel Trachsel to be completely unknown,[1] 2C-BU is the 2C analogue of the DOx derivative DOBU, which is active but does not appear to have psychedelictype effects in either animals or humans .[1][2][3] 2C-BU has several notable skeletal isomers, including 2C-TBU, 2C-TBu, and 2C-Su.[1][4] 2C-Tbu and 2C-TBu are both active and produce hallucinogenic-type effects in animals and/or humans .[5][6][7][4] This is in spite of 2C-Tbu being predicted to be inactive[4] and DOTB (the DOx analoque of 2C-Tbu) being inactive as a hallucinogen in animals and humans .[2][8] 2C-BU may have reduced hallucinogenic potency than other 2C drugs and is being developed as a potential anti-inflammatroy medication.[6][7][2-C]^ ^ a b c Trachsel D, Lehmann D, Enzenberger C (2013). Phenethylamines: von der Struktur zur Funktion [Phenethylamines: From Structure to Function]. Nachtschatten science (in German). Solothurn: Nachschattchen-Verlag. pp. 763–764, 766–767, 771, 901. ISBN 978-3-03788-700-4. OCLC 858805226. Retrieved 29 January 2025.[^] a b Shulglin AT, Shulglin A (1991). "³H-DOBU 2,5-DIMETHOXY-4-(n-BUTYL)AMPHETAMINE". PHKAL: A Chemical Love Story (1st ed.). Berkeley, CA: Transform Press. ISBN 978-0-9630096-0-9. OCLC 25627628.[^] Seggel MR, Youssif MJ, Lyon RA, Meteler M, Rott S, Schütz SA, et al. (March 2009). "A structural activity study of the binding of substituted amphetamines to 5-HT_{2A}-receptors (Ki = 0.093–0.036; n = 3). a – b – Varty GB, Canai CE, Müller T, Mueller M (April 2006). "The pharmacological and Structural Activity Relationships of 2,5-Dimethoxy-4-substituted Phenethylamines (Eleusis Therapeutics' Agonist)". Journal of Medicinal Chemistry. 49(4): 6144–6188. doi:[10.1021/jm00165a023](#). PMID 16813535.[^] Raz SF (February 2020). "Eleusis Drug Development Overview". ChemRxiv. doi:[10.26434/chemrxiv-2020-qzjwv-v2](#). PMID 38593423.

The 4-tert-butyl group was considered as a spot for potential hydroxylation by cytochrome P450s to discover analogs with short-lasting effects. However, 2C-TBU was a protaganist against the α₁-adrenoreceptor (Ki = 9.9 nm, EC50 = 4.2 nm) and elicited a robust HTR (Supporting Information, Table S1), providing *in vivo* evidence that the tert-butyl group is not rapidly metabolized to an inactive component in mice, despite predictions.[^] Shulglin A, Manning T, Daley PF (2011). "DOM, DOMT". The Shulglin Index, Volume One: Psychedelictic Phenethylamines and Related Compounds. Vol. 1. Berkeley, CA: Transform Press. pp. 118–129. ISBN 978-0-9630096-0-9. OCLC 709667100. 2c-BU: [...] (15) Synthesis (from 2,5-dimethoxysubutylbenzene) (Mueller, 2006); although this compound was reported here, a structure-search in Chemical Abstracts does not produce a CAS registry number (16) Threshold activity in humans at 5 mg orally: long duration (about 20 hours; Mueller, 2006). [...] Mueller M. (2006) Personal communication with A.T. Shulglin.[^] a b W.O published 2020120823, Nichols CD, Billac G, Nichols DE, "Compounds and methods for treating inflammatory disorders", published 15 October 2020.[^] a b Raz SF (February 2020). Eleusis Drug Development Overview. LSX World Congress 2020.[^] Oberlander RA (May 1989). "Stereo selective aspects of hallucinogenic drug action and brain documentation studies of entactogens". Purdue e-Pubs. Purdue University. Retrieved 17 February 2025.

Table 7. Hallucinogenic potency of 4-alkyl-2,5-dimethoxyamphetamines [...], DOTB: [...] Hallucinogenic Potencyc. [...] this compound has not been established as hallucinogenic. [...] Within this homologous series, optimum activity is shown by the alkyl chain length of 3 carbons (butyl), and its duration of effect is longer than those observed for shorter chains. [...] In addition, it appears that the substitution pattern of the aromatic ring is important. [...] The presence of a methoxy substituent on the benzene ring increases sensitivity to dose, suggesting that blocking of the 4-alkyl substituent was not tolerated. [...] In a study employing 5-MeO-DOMT as the training drug in rats, DOTB and DOAM were distinguishable from this hallucigenum, while 2,5-DMA and DOM were not (Glennon et al., 1981). This was consistent with the studies described above. Surprisingly, however, stimulus generalization was not observed for DOET, DOPR, and DOBU (Glennon et al., 1981a). [...] Aldous et al. (1974) noted steric restrictions on the 4-substituent in the rabbit hyperthermia model since the 4-isopropyl derivative was more potent than the 4-tert-butyl analogue, DOTB. Additional studies with DOTB, which contains a more highly hindered benzylic carbon, indicate that hallucinogenic-like activity may actually be abolished in man (Shulglin and Dyer, 1975) and drastically attenuated in animals (Glennon et al., 1982).

2C-BU - Isomer Design Retrieved from "5 Pharmaceutical compound 2C-BU Clinical dataOther names2,5-Dimethoxy-4-tert-butylphenethylamine; 4-tert-Butyl-2,5-dimethoxyphenethylamine; 2C-TBU; 2C+tuDrug classSerotonin receptor agonist; Serotonergic psychedelic; Hallucinatoly agents IUPAC name 2-(4-tert-butyl-2,5-dimethoxyphenoxy)ethanamine PubChem CID117347545PubSpicer/Temp76370331Chemical and physical dataFormulaC14H23NO2Molar mass327.343 g·mol−1SDMI[Smiles]Interactive imageSMILES CCC(C)(C)C1=CC(C=C(C=C1))C(=CO)CCCOCInChIInChI=1S/C14H23NO2/c1-14(-2)-3-11-12(-16)-(4)-(6)-7-15(-8)-11-9/-15H,2-,7-,15H2,-1-H3KeyK:MHNFTGKKRUUDUST-UHHFFAAYSA-NC2-BU, or 2C-TBU, also known as 4-tert-butyl-2,5-dimethoxyphenethylamine, is a serotonin receptor agonist and putative serotonergic psychedelic of the phenethylamine and 2C families.[1][2](It is a cocaine enantiomer.) Its Ki is 9.9–35 nM, EC50/TED1 half-maximal effective concentration = 4.2 mM and also binds to the serotonin 5-HT2C receptor (Ki = 7.24 nM).[1][2] The drug produces a robust head-twitch response, a behavioral proxy of psychedelic effects, in rodents.[12] It is one of the most highly studied compounds and its durability and its duration of effect make it useful for research purposes. It is structurally similar to other 2C family members such as 2C-E and 2C-L, and its structure is closely related to that of 2C-F and 2C-G. Although 2C-BU might be a serotonin 5-HT2A receptor antagonist and might thereby be hypnotic,[1] but it was instead shown to be an agonist in subsequent studies.[2][2C-BU 2C-TBU DOTB]^ ^ a b c d Trachsel D, Lehmann D, Enzenberger C (2013). Phenethylamines: von der Struktur zur Funktion [Phenethylamines: From Structure to Function]. Nachtschatten science (in German). Solothurn: Nachschattchen-Verlag. pp. 766–767, 771, 901. ISBN 978-3-03788-700-4. OCLC 858805226. Retrieved 29 January 2025.[^] a b c d Varty GB, Canai CE, Mueller TA, Hartzel JA, Tyagi R, Avery K, et al. (April 2024). "Synthesis and Structure-Activity Relationships of 2,5-Dimethoxy-4-Substituted Phenethylamines and the Discovery of CYB2100-A: Potent, Orally Bioavailable and Long-Acting Serotonin 5-HT2E Receptor Agonist". Journal of Medicinal Chemistry. 67(8): 6144–6188. doi:[10.1021/acs.jmedchem.3c01961](#). PMID 38593423.

The 4-tert-butyl group was considered as a spot for potential hydroxylation by cytochrome P450s to discover analogs with short-lasting effects. However, 2C-TBU was a protaganist agains the 5-HT2A receptor (Ki = 9.9 nm, EC50 = 4.2 nm) and elicited a robust HTR (Supporting Information, Table S1), providing *in vivo* evidence that the tert-butyl group is not rapidly metabolized to an inactive component in mice, despite predictions. 2C-TBU - Isomer Design This psychoactive drug-related article is a stub. You can help Wikipedia by expanding it.vte Retrieved from "6 The following pages link to 2C-BU External tools (link count translation count sorted last)

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