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Bupropion guide

Medication used to treat anxiety disorders Not to be confused with Bupropion or Buprenorphine.
Pharmacological compound
Bupropion
Clinical dataPronunciation /bjuːˈspɹoʊn/ (BEW-spyr-rohn) Trade namesBuspar, othersOther namesSM 9022-111AHSF/Drugs.comMonographMedlinePlus688005License data US DailyMed: Bupropion
Pregnancy category
AU : B1[2] Routes ofadministrationBy mouthAtc codeN05B01 (WHO) Legal statusLegal status
AU : S4 (Prescription only)[3][4] BR : Class C1 (Other controlled substances)[5] CA : only UK, POM (Prescription only) US : R-only Pharmacokinetic dataBioavailability3.9%[6]Protein binding86–95%[7]MetabolismLiver via CYP3A4[11][12]Metabolites5-OH-Bupropion, 6-OH-Bupropion, 8-OH-Bupropion, 1-PTPtooltip 1-(2-pyrimidinyl)piperazine[8][9][10]Elimination half-life2.5 hours[11]ExcretionRoute : 29–63%[7]Feces : 18–38%[7]Identifiers IUPAC name : 8-(4-(4-(Pyrimidin-2-yl) piperazin-1-yl)butyl)-8-azaspiro[4.5]decane-7,9-dione CAS Number36505-84-7 Yoc HCL: 33386-08-2PubChem CID24771UPIIAR/BPS36DrugBankDB00490 XchemSpider2383 YUNTYRIMIDIN6WKSXBLHKEGGID07593 YCHEBICHEBI:3223 YCHEMBLChEMBL:EX049 YCompTox Dashboard (EPA)DTXSID20227077 ECHA InfoCard100.048.23.2Chemical and physical dataFormulaC12H19NSO2Molar mass385.512 g·mol−3D model (JSmol)Interactive image SMILES

O=C1CC(C)(CC2)CC(C=O)N1CCCC1CCN(C2cncnc2)CC1 InChI InChI=1S/C21H31NSO2/c27-18-16-21-7(1-19)(28)(26)(18)1-4-3-10-24-12-14-25(15-13-24)-20-22-8-5-9-23-20(5)-8,9H-1,4-6,7,10-17H2 YocWCA:REACTOMEVBRGNT-UHFFFAOYSA-N Y (verify) Bupropione, sold under the brand name Buspar among others, is an anxiolytic, a medication primarily used to treat anxiety disorders, particularly generalized anxiety disorder.[13][14] It is a serotonin-5HT1A receptor partial agonist, increasing action at serotonin receptors in the brain.[6] It is taken orally and takes two to six weeks to be fully effective.[13][14] Common side effects of bupropione include nausea, headaches, dizziness, and dry mouth, with the most serious side effects including mood disorders, serotonin syndrome, and drowsiness.[15] Use in pregnancy appears to be safe, but has been well studied, and it during breastfeeding has been well studied either.[15][16] Bupropione was developed in 1968 and approved for medical use in the United States in 1986.[13][14] It is available as a generic medication.[15] In 2022, it was the 54th most commonly prescribed medication in the United States, with more than 12 million prescriptions.[17][18] Bupropione is used for the short-term and long-term treatment of anxiety disorders or symptoms of anxiety.[19][20][21][22][23] It is generally preferred over benzodiazepines because it does not activate the receptors that make drugs like alprazolam addictive.[14] Bupropione has no immediate anxiolytic effects, and hence has a delayed onset of action; its full clinical effectiveness may require 2–4 weeks to manifest itself.[24] The drug is similarly effective in the treatment of generalized anxiety disorder (GAD) to benzodiazepines including diazepam, alprazolam, lorazepam, and clorazepate.[6] Bupropione is not known to be effective in the treatment of other anxiety disorders besides GAD.[25] There is some evidence that bupropione on its own may be useful in the treatment of hypocoactive sexual desire disorder (HSD) in women.[26] Bupropione may also be effective in treating antidepressant-induced sexual dysfunction.[14][27][28] Bupropione is not effective as a treatment for benzodiazepine withdrawal, barbiturate withdrawal, or alcohol withdrawal.[29] SSRI and SNRI antidepressants such as paroxetine and venlafaxine, respectively, may cause jaw pain/jaw spasm reversible syndrome, although it is not common, and bupropione appears to be successful in treating antidepressant-induced bruxism.[30][31] Bupropione has these contraindications:[32][33] Hypersensitivity to bupropione Metabolic acidosis, as in diabetes Should not be used with MAO inhibitors Severely compromised liver and/or kidney function Main article: List of side effects of bupropione Known side effects associated with bupropione include dizziness, headaches, nausea, fatigue, and paresthesia.[6] Bupropione is generally well tolerated and is not associated with weight loss, cognitive and psychomotor impairment, muscle relaxation, physical dependence, or amphetamine-like effects.[6] In addition, bupropione does not produce euphoria.[24] It is not a drug of abuse.[20] Bupropione appears to be relatively benign in cases of single drug overdose, but no definitive data are available.[34] In one clinical trial, bupropione was administered to healthy male volunteers at a dosage of 160 mg/day and produced side effects including nausea, vomiting, dizziness, drowsiness, miosis, and gastric distress.[19][20][22] In early clinical trials, bupropione was given at dosages even as high as 2,400 mg/day, with akathisia, tremor, and muscle rigidity observed.[35] Deliberate overdoses with 250 mg and up to 300 mg bupropione have resulted in drowsiness in about 50% of individuals.[35] One death has been reported in a co-ingestion of 450 mg bupropione with alprazolam, diltiazem, alcohol, and cocaine.[35] Bupropione has been shown in vitro to be metabolized by the enzyme CYP3A4.[11][21] This finding is consistent with the in vivo interactions observed between bupropione and these inhibitors or inducers of cytochrome P450 3A4 (CYP3A4). Among others:[32] Itraconazole: Increased plasma level of bupropione Rifampicin: Decreased plasma levels of bupropione Nefazodone: Increased plasma levels of bupropione Haloperidol: Increased plasma levels of bupropione Carbamazepine: Decreased plasma levels of bupropione Grapefruit: Significantly increases the plasma levels of bupropione.[36] See grapefruit-drug interactions. Fluvoxamine: Moderately increased plasma levels of bupropione.[37] Elevated blood pressure has been reported when bupropione has been administered to patients taking monoamine oxidase inhibitors (MAOIs).[32] Bupropione has been found to markedly reduce the hallucinogenic effects of the serotonergic psychedelic psilocybin in humans.[38][39][40] This parallels findings in which serotonin 5-HT1A receptor agonists like 8-OH-DPAT attenuate the head-twitch response, a behavioral proxy of psychedelic effects, induced by serotonergic psychedelics in rodents.[41] Paradoxically however, bupropione enhances the head-twitch response, a behavioral proxy of psychedelic effects, induced by 5-HT2A receptor agonists like 25I-NBOMe in rats.[42] In a monkey model, bupropione also appears to reduce the effects of psilocybin on the heart rate and blood pressure, but not on the respiratory rate or the pupal diameter.

Bupropione is a weak serotonin reuptake inhibitor (SRI) and a weak norepinephrine reuptake inhibitor (NRI). It is a weak 5-HT1A receptor partial agonist, and a weak 5-HT2A receptor antagonist. It is also a weak 5-HT2B receptor antagonist. It is a weak 5-HT2C receptor antagonist. It is a weak 5-HT2D receptor antagonist. It is a weak 5-HT2E receptor antagonist. It is a weak 5-HT2F receptor antagonist. It is a weak 5-HT2G receptor antagonist. It is a weak 5-HT2H receptor antagonist. It is a weak 5-HT2I receptor antagonist. It is a weak 5-HT2J receptor antagonist. It is a weak 5-HT2K receptor antagonist. It is a weak 5-HT2L receptor antagonist. It is a weak 5-HT2M receptor antagonist. It is a weak 5-HT2N receptor antagonist. It is a weak 5-HT2O receptor antagonist. It is a weak 5-HT2P receptor antagonist. It is a weak 5-HT2Q receptor antagonist. It is a weak 5-HT2R receptor antagonist. It is a weak 5-HT2S receptor antagonist. It is a weak 5-HT2T receptor antagonist. 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It is a weak 5-HT2UG receptor antagonist. It is a weak 5-HT2UH receptor antagonist. It is a weak 5-HT2UI receptor antagonist. It is a

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Retrieved 2024-11-12. 2C-B - Isomer Design 2C-B - PsychonautWiki Erowid 2C-B vault 2C-B - PIHKAL - Erowid 2C-B - PIHKAL - Isomer Design 2C-B: Effects, Dosage, & Safety - Tripsitter Retrieved from " 3 Pharmaceutical compound 2C-iBuClinical dataOther names2,5-Dimethoxy-4-isobutylphenethylamine; 4-Isobutyl-2,5-dimethoxyphenethylamine; 2C-iBu; 2C-iB; ELE-02; ELE02; ELEU02Routes of administrationOral:[1] Ophthalmic:[2][3]Drug classSerotonin 5-HT2A receptor agonist; Serotonergic psychedelic; Hallucinogen; Anti-inflammatory drugPharmacokinetic dataBioavailability74%[4]Duration of action20 hours[1]Identifiers IUPAC name 2-(4-(2,5-dimethoxy-4-(2-methylpropyl)phenyl)ethanamine PubChem CID57486931Chemical and physical dataFormulaC14H23NO2Molar mass237.343 g mol−13D model (JSmol)Interactive image SMILES CC(C)C=C(C=C(C)OC)CCN)OC InChI InChI=1S/C14H23NO2/c1-10(2)7-12-9-13(16-3)11(5-6-15)8-14(12)17-4/h8-10H,5-7,15H2,1-4H3Key: BUVVTOBHN-UHFFFAOYSA-N 2,5-Dimethoxy-4-isobutylphenethylamine (2C-iBu or 2C-B), also known by its developmental code name ELE-02, is a serotonin 5-HT2A receptor agonist, serotonergic psychedelic, and anti-inflammatory drug which is under development for the treatment of inflammation.[2][3][4][5][6][7] It is a member of the phenethylamine and 2C families of compounds.[4][5][7] The drug is being developed as a topical eye drop for treatment of inflammatory eye conditions.[2][3] There is also interest in 2C-iBu and related drugs for treatment of systemic inflammation and neuroinflammation,[8][9][10][11][12][5] 2C-iBu was not assessed or discovered by Alexander Shulgin and was not described in PIHKAL (Phenethylamines I Have Known and Loved) (1991).[7][13] However, he did include 2C-iBu (as "2C-iB") as a DOM analogue in a table in The Shulgin Index, Volume One: Psychedelic Phenethylamines and Related Compounds (2011).[1] In addition, he stated in a footnote that a 5 mg oral dose of 2C-iBu produces threshold activity and has a long duration of about 20 hours.[1] The cited source for these observations, however, was only a 2006 personal communication with "M. Mueller." [1] 2C-iBu was subsequently more thoroughly characterized by Charles D. Nichols and colleagues at Louisiana State University School of Medicine as a novel anti-inflammatory drug in the late 2010s.[4][7] Eleusis has licensed 2C-iBu intellectual property from LSU and the drug has reached the preclinical research stage of development, but no recent development has been reported as of October 2023.[2][3] 2C-iBu calcium targets[4] Target Affinity (pKi) 2C-iBu (R)-DOI 5-HT1A 7.1 5.9 5-HT1B 7.3 5.6 5-HT1D 7.2 ND 5-HT2A 8.9 10.4 5-HT2B 7.8 8.6 5-HT2C 9.6 9.2 5-HT6 5.9 ND 5-HT7 6.5 ND 2C-iBu is a highly potent and robustly efficacious serotonin 5-HT2A receptor agonist.[4] Its EC50Tooltip half-maximal effective concentration values are 1.3 nM for calcium mobilization and 57.5 nM for β-arrestin-2 recruitment, whereas its EmaxTooltip maximal efficacy values are 103% for calcium mobilization and 77% for β-arrestin-2 recruitment relative to serotonin.[4] The drug showed higher potency and efficacy as a serotonin 5-HT2A receptor agonist than several other 2C drugs, including 2C-NF, 2C-B, 2C-1, 2C-H, and 2C-P, whereas its activities were more comparable to or less than those of the DOx drugs DOIB, (R)-DOB, (R)-DOI, and DOI.[4] 2C-iBu has also been assessed and found to bind to other serotonin receptors, including the serotonin 5-HT2C, 5-HT2B, 5-HT1B, 5-HT1D, 5-HT1A, 5-HT7, and 5-HT6 receptors, in that order of affinity and with varying avidities.[4] 2C-iBu dose-dependently produces the head-twitch response (HTR), a behavioral proxy of psychedelic effects, in rodents.[4] In terms of ED50Tooltip median effective dose, 2C-iBu is about 3-fold less potent than (R)-DOI in producing the HTR.[4] According to Eleusis, it is expected to have "greatly reduced" psychoactivity or hallucinogenic effects compared to related drugs like other members of the 2C family.[6][14] The drug is effective in an allergic asthma model in rodents and showed similar potency as (R)-DOI.[4] Due to its reduced potency in producing the HTR but retained anti-inflammatory potency, 2C-iBu is expected to show greater separation between the desired anti-inflammatory and the undesired psychedelic effects in humans compared to (R)-DOI.[4] In contrast to certain other anti-inflammatory drugs like corticosteroids, serotonin 5-HT2A receptor agonists like 2C-iBu are not immunosuppressants.[14] 2C-iBu, also known as 2,5-dimethoxy-4-isobutylphenethylamine, is a phenethylamine and 2C derivative.[4][5][7] Related drugs to 2C-iBu include 2C-Bu (the butyl analogue), 2C-iBu (the tert-butyl analogue), 2C-sBu (the sec-butyl analogue), and 2C-CPM (the cyclopropylmethyl analogue).[4] In addition, 2C-iBu is related to DOx drugs such as DOIB (DOI*Bu*).[4][15] According to Charles D. Nichols, 2,5-dimethoxyamphetamine (2,5-DMA) has potent anti-inflammatory activity with weak or no hallucinogenic effects.[7][15] Moreover, DOTFM has potent psychedelic effects with no anti-inflammatory activity.[7] [16][17] Hence, it appears that the anti-inflammatory effects and psychedelic effects of serotonin 5-HT2A receptor agonists can be fully dissociated.[7] The chemical synthesis of 2C-iBu has been described.[4][11] 2C-iBu was developed as a novel anti-inflammatory drug by Charles D. Nichols and colleagues at Eleusis in the late 2010s.[7][4] They are developing it for treatment of inflammatory conditions.[2][3] Eleusis was acquired by and merged into Beckley Psych in October 2022.[2][18][19] The drug has reached the preclinical research stage of development, but no recent development has been reported as of October 2023.[2][3] Eleusis has licensed intellectual property surrounding 2C-iBu and has patent protection for 2C-iBu.[6][4] 2C-iBu is not a controlled substance in the United States as of 2020.[6] Anti-inflammatory § Serotonergic psychedelics ^ a b c d e f Shulgin A, Manning T, Daley PF (2011). #60. DOM". The Shulgin Index, Volume One: Psychedelic Phenethylamines and Related Compounds. Vol. 1. Berkeley, CA: Transform Press. pp. 118–129. ISBN 978-0-9630096-3-0. OCLC 709667010. 2c-iB. 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