

Resource Summary Report

Generated by SPARC SAWG on Jul 29, 2026

Psychoactive Drug Screening Program Ki Database

RRID:SCR_003281

Type: Tool

Proper Citation

Psychoactive Drug Screening Program Ki Database (RRID:SCR_003281)

Resource Information

URL: <http://pdsp.med.unc.edu/pdsp.php>

Proper Citation: Psychoactive Drug Screening Program Ki Database (RRID:SCR_003281)

Description: THIS RESOURCE IS NO LONGER IN SERVICE. Documented on January 5, 2023. Database of information on the abilities of drugs to interact with an expanding number of molecular targets. It serves as a data warehouse for published and internally-derived Ki, or affinity, values for a large number of drugs and drug candidates at an expanding number of G-protein coupled receptors, ion channels, transporters and enzymes. The query interface is designed to let you search by any field, or combination of them to refine your search criteria. The flexible user interface also provides for customized data mining. The database is regularly updated. If you know of Ki data you would like to add, you can select Direct Ki Entry at the grey panel. If you would like, however, your own data (published or not) added, Send them a Reference at the grey panel, or send an email to Dr. Bryan Roth or Estela Lopez. Most common targets: 5-HT_{2A}, DOPAMINE D₁, DOPAMINE D₂, 5-HT_{2C}, 5-HT_{1A}, Cholinergic, muscarinic M₁, 5-HT Transporter, HISTAMINE H₁, 5-HT_{2B}, OPIOID Mu, 5-HT₆, adrenergic Beta₂, 5-HT₇, OPIATE Delta, adrenergic Alpha_{1A}, OPIOID Kappa, 5-HT₃, m-AChR, adrenergic Beta₁, adrenergic Alpha_{2A}, 5-HT₁, Acetylcholinesterase, AChE, Thromboxane A₂, n-AChR, Opiate non-selective, CANNABINOID CB₁, HERG, Dopamine, cocaine site, adrenergic Alpha_{2C}, M₃, Norepinephrine Uptake, Monoamine Oxidase A, Monoamine Oxidase B, 5-HT₄, adrenergic Alpha₁, 5-HT_{1E}, B₁ BRADYKININ, 5-HT₂, 5-HT_{2C}-INI, DOPAMINE D₄, ANGIOTENSIN AT₁, Neurokinin NK₁, HISTAMINE H₃, Sigma-1, VIP, Dopamine₂-like, metabotropic glutamate 5, 5-HT_{2c} VGL, Carbonic Anhydrase Isozymes, CA I, DOPAMINE D₂ Long, adrenergic Alpha₂, adrenergic Alpha_{2B}, adrenergic Alpha_{2D}, GABA A alpha₁, CANNABINOID CB₂, adrenergic Alpha_{1B}, 5-HT_{5a}, Melatonin, HISTAMINE H₄, NMDA, 5-HT_{4a}, Glucocorticoid, Interleukin 1-beta, Sodium Channel, Benzodiazepine central, Cholinergic, muscarinic M₅, Neuropeptide Y₁, GABA A alpha₅, Galanin R₂, Neurokinin NK₃, 5-HT_{1B}, M₂, DOPAMINE D₃, Angiotensin, Dopamine₁-like, Neurokinin NK₂, adrenergic Beta, Dopamine D₁ high, Dopamine D_{1A}, MAP kinase, ADENOSINE A_{2a}, 5-HT_{7b}, Nitrogen oxide synthase - neuronal, Sigma-2, CDK2, Neurotensin 2, DOPAMINE

D2 Short, Multidrug Resistance Transporter MDR 1, GABA A Benzodiazepine, VEGF-R2, OPIATE Mu 2, Angiotensin II AT1, HISTAMINE H2, Angiotensin-converting enzyme, ACE, Sigma, beta-amyloid, ADENOSINE, ADENOSINE A2B, Adrenaline, Neurotensin 1

Abbreviations: Ki DB

Synonyms: Ki Database, PDSP Ki Database

Resource Type: service resource, data or information resource, data repository, database, storage service resource

Keywords: gpcr, ki, 5-ht transporter, 5-ht2a, dopamine d2, dopamine d1, 5-ht1a, m1, dopamine transporter, opiate mu, histamine h1, adrenergic alpha1, 5-ht7, m2, 5-ht2c, cannabinoid cb1, adrenergic alpha2a, net, 5-ht3, 5-ht2b, adrenergic alpha1a, adrenergic beta1

Funding: NIMH ;
Heffter Research Institute

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: Psychoactive Drug Screening Program Ki Database

Resource ID: SCR_003281

Alternate IDs: nif-0000-01866

Record Creation Time: 20220129T080218+0000

Record Last Update: 20260729T044040+0000

Ratings and Alerts

No rating or validation information has been found for Psychoactive Drug Screening Program Ki Database.

No alerts have been found for Psychoactive Drug Screening Program Ki Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 19 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Zhou JJ, et al. (2020) Group III metabotropic glutamate receptors regulate hypothalamic presympathetic neurons through opposing presynaptic and postsynaptic actions in hypertension. *Neuropharmacology*, 174, 108159.

- Jahangard L, et al. (2017) Children with ADHD and symptoms of oppositional defiant disorder improved in behavior when treated with methylphenidate and adjuvant risperidone, though weight gain was also observed - Results from a randomized, double-blind, placebo-controlled clinical trial. *Psychiatry research*, 251, 182.
- Watts SW, et al. (2015) 5-HT is a potent relaxant in rat superior mesenteric veins. *Pharmacology research & perspectives*, 3(1), e00103.
- Gurevich EV, et al. (2015) Beyond traditional pharmacology: new tools and approaches. *British journal of pharmacology*, 172(13), 3229.
- Drake RA, et al. (2014) The degree of acute descending control of spinal nociception in an area of primary hyperalgesia is dependent on the peripheral domain of afferent input. *The Journal of physiology*, 592(16), 3611.
- Elgoyhen AB, et al. (2014) Identifying tinnitus-related genes based on a side-effect network analysis. *CPT: pharmacometrics & systems pharmacology*, 3(1), e97.
- Nakayama H, et al. (2014) Two cases of mild serotonin toxicity via 5-hydroxytryptamine 1A receptor stimulation. *Neuropsychiatric disease and treatment*, 10, 283.
- Ferrie AM, et al. (2014) Divergent label-free cell phenotypic pharmacology of ligands at the overexpressed α -adrenergic receptors. *Scientific reports*, 4, 3828.
- Rosenthaler S, et al. (2014) Differences in receptor binding affinity of several phytocannabinoids do not explain their effects on neural cell cultures. *Neurotoxicology and teratology*, 46, 49.
- López-Muñoz F, et al. (2013) Active metabolites as antidepressant drugs: the role of norquetiapine in the mechanism of action of quetiapine in the treatment of mood disorders. *Frontiers in psychiatry*, 4, 102.
- Kim K, et al. (2012) Neuroimmunological mechanism of pruritus in atopic dermatitis focused on the role of serotonin. *Biomolecules & therapeutics*, 20(6), 506.
- Wu H, et al. (2012) Structure of the human μ -opioid receptor in complex with JDTic. *Nature*, 485(7398), 327.
- McEvoy J, et al. (2011) Coexpression of normally incompatible developmental pathways in retinoblastoma genesis. *Cancer cell*, 20(2), 260.
- Capuano B, et al. (2010) JL13 has clozapine-like actions on thermoregulatory cutaneous blood flow in rats: Involvement of serotonin 5-HT_{1A} and 5-HT_{2A} receptor mechanisms. *Progress in neuro-psychopharmacology & biological psychiatry*, 34(1), 136.
- Harmar AJ, et al. (2009) IUPHAR-DB: the IUPHAR database of G protein-coupled receptors and ion channels. *Nucleic acids research*, 37(Database issue), D680.
- Beig MI, et al. (2009) Blockade of 5-HT_{2A} receptors suppresses hyperthermic but not cardiovascular responses to psychosocial stress in rats. *Neuroscience*, 159(3), 1185.
- Kim K, et al. (2009) A novel flow cytometric high throughput assay for a systematic study on molecular mechanisms underlying T cell receptor-mediated integrin activation. *PLoS*

one, 4(6), e6044.

Gillman PK, et al. (2007) Tricyclic antidepressant pharmacology and therapeutic drug interactions updated. *British journal of pharmacology*, 151(6), 737.

Zhu H, et al. (2007) Expression and distribution of all dopamine receptor subtypes (D(1)-D(5)) in the mouse lumbar spinal cord: a real-time polymerase chain reaction and non-autoradiographic in situ hybridization study. *Neuroscience*, 149(4), 885.