

Resource Summary Report

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PubChem BioAssay

RRID:SCR_010734

Type: Tool

Proper Citation

PubChem BioAssay (RRID:SCR_010734)

Resource Information

URL: <http://www.ncbi.nlm.nih.gov/sites/entrez?db=pcassay&cmd=search>

Proper Citation: PubChem BioAssay (RRID:SCR_010734)

Description: Data and information collection and repository for biological activities of small molecules and small interfering RNAs (siRNAs) hosted by the US National Institutes of Health (NIH). Used to select and summarize the bioactivities of tested substances.

Abbreviations: PubChem BioAssay

Synonyms: NCBI PubChem BioAssay, PubChem BioAssay Database

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

Defining Citation: [PMID:19933261](#), [PMID:22140110](#)

Keywords: collection, compound, substance, bioassay, chemical, structure, biological, activity

Funding: Intramural Research program of the National Institutes of Health

Resource Name: PubChem BioAssay

Resource ID: SCR_010734

Alternate IDs: nlx_93939

Alternate URLs: <http://pubchem.ncbi.nlm.nih.gov/>, <https://www.ncbi.nlm.nih.gov/pcassay>

Record Creation Time: 20220129T080300+0000

Record Last Update: 20260905T132645+0000

Ratings and Alerts

No rating or validation information has been found for PubChem BioAssay.

No alerts have been found for PubChem BioAssay.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 498 mentions in open access literature.

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

Li J, et al. (2026) Mechanism of Saikosaponin D in regulating ferroptosis in patient-derived lung adenocarcinoma organoids via upregulation of ATF3/CHOP/CHAC1 signaling. *Scientific reports*, 16(1), 2513.

Yang B, et al. (2026) Enzymatic preparation of epigallocatechin gallate diglucoside and bioactivity assessment. *AMB Express*, 16(1).

Cai Z, et al. (2026) Honokiol and Magnolol Exert an Anti-Inflammatory Effect by Inhibiting JAK2/STAT3/IL17 Signalling in a Rat Model of Ulcerative Colitis: A Combination of Bioinformatics and Experimental Study. *Journal of cellular and molecular medicine*, 30(6), e71080.

Ouyang Y, et al. (2026) Puerarin Attenuates White Matter Injury and Blood-Brain Barrier Disruption After Intracerebral Hemorrhagic Stroke via cGAS-STING Axis. *Biology*, 15(3).

Shen D, et al. (2026) Quercetin Alleviates Cerebral Ischemia-Induced Neuroinflammation by Inhibiting Microglia-Mediated NLRP3/Caspase-1/GSDMD Pathway. *Cells*, 15(6).

Chen Y, et al. (2026) Emodin triggers cuproptosis to suppress hepatocellular carcinoma via SLC7A11/FDX1 axis. *Frontiers in oncology*, 16, 1756712.

Yan J, et al. (2026) Crocins Ameliorate Experimental Immune Checkpoint Inhibitor-Related Myocarditis by Targeting the Hpx/Nrf2/HO-1 Pathway. *International journal of molecular sciences*, 27(2).

Lai Q, et al. (2026) Paris saponin VII suppresses osteosarcoma progression by targeting VEGFR2 and PD-L1 to enhance anti-angiogenic and immunotherapeutic efficacy. *Cancer cell international*, 26(1).

Xie Y, et al. (2026) From Local Tissue Repair to Fibrosis: Deciphering Gene Co-Expression Networks in Benign Pulmonary Nodules and Idiopathic Pulmonary Fibrosis Comorbidity via Bioinformatics and Machine Learning. *International journal of molecular sciences*, 27(8).

Abd El-Fattah W, et al. (2026) Chitosan Nanoparticles Co-Encapsulating Selegiline Analogue and L-Tyrosine Mitigate Depression-Related Pathology and Cognitive Decline in

Rats. *Biomolecules*, 16(6).

Hu B, et al. (2026) Dendrobium officinale polysaccharide ameliorates high-fat diet-induced hepatic lipid metabolic disorder via the SIRT6/PGC-1 α signaling axis. *Frontiers in nutrition*, 13, 1763341.

Wang R, et al. (2026) Analysis of molecular targets and mechanisms of Bisphenol F (BPF)-induced non-alcoholic fatty liver disease (NAFLD) based on network toxicology and molecular dynamics. *PloS one*, 21(6), e0351730.

Zhao X, et al. (2026) Exploring the mechanisms of baicalin in diabetic cardiomyopathy: Insights from network pharmacology and experimental validation. *Biomedical reports*, 25(2), 97.

Letuku MK, et al. (2026) Stacked ensemble learning and in-silico profiling reveal dual DPP-IV and SGLT2 inhibitors from *Moringa oleifera* metabolites. *Scientific reports*, 16(1).

Hu RJ, et al. (2026) Leonurine Mitigates Experimental Autoimmune Prostatitis by Modulating Macrophage M1 Polarization Through the TLR4/NF- κ B Signaling Pathway. *Inflammation*, 49(1), 79.

Pan Y, et al. (2026) Integrated network toxicology, molecular docking, and molecular dynamics simulation reveals mechanisms of benzo[a]pyrene-induced pan-cancer. *BMC pharmacology & toxicology*, 27(1), 31.

Dolinska MB, et al. (2026) Insights from Computational Dynamic Active Site Mapping into Substrate Recognition and Mutation-Induced Dysfunction in Human Tyrosinase. *International journal of molecular sciences*, 27(4).

Lu X, et al. (2026) Integrated New Approach Methodologies Reveal the Potential Role of 2,7-Dibromocarbazole in Parkinson's Disease via Monoamine Oxidase B Inhibition and Dopaminergic Dysfunction. *Environmental science & technology*, 60(9), 7159.

Zhong Y, et al. (2026) Unraveling the potential mechanisms of Xiaochaihu decoction alleviates metabolic associated fatty liver disease (MAFLD) by integrated transcriptomics, metabolomics, and network pharmacology. *Chinese medicine*, 21(1), 41.

Mai DH, et al. (2026) Phillyrin alleviates Kawasaki disease-induced lung inflammation by inhibiting platelet production through the NLRP3/IL-1 β /NF-E2 signaling pathway. *Chinese medicine*, 21(1).