

Resource Summary Report

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PubChem Substance

RRID:SCR_004742

Type: Tool

Proper Citation

PubChem Substance (RRID:SCR_004742)

Resource Information

URL: <http://www.ncbi.nlm.nih.gov/pcsubstance?db=pcsubstance>

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Description: As one of three primary databases of PubChem (Pcsubstance, Pccompound, and PCBioAssay), PubChem Substance Database contains descriptions of chemical samples, from a variety of sources, and links to PubMed citations, protein 3D structures, and biological screening results that are available in PubChem BioAssay. If the contents of a chemical sample are known, the description includes links to PubChem Compound. A PubChem FTP is available and new data is accepted into the repository. Pcsubstance contains more than 81 million records (2011).

Abbreviations: PubChem Substance

Synonyms: PubChem Substances Database, Pcsubstance, NCBI PubChem Substance, PubChem Substance Database

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

Defining Citation: [PMID:26400175](#), [PMID:26175801](#)

Keywords: small molecule, biological activity, chemical substance, bioactivity, gold standard

Resource Name: PubChem Substance

Resource ID: SCR_004742

Alternate IDs: nlx_74645

Alternate URLs: <http://pubchem.ncbi.nlm.nih.gov/>

Record Creation Time: 20220129T080226+0000

Ratings and Alerts

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

No alerts have been found for PubChem Substance.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5313 mentions in open access literature.

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

Zhang H, et al. (2026) When glycobiology meets inflammasome activation: Insights and implications. *Journal of advanced research*, 79, 833.

Zhang Q, et al. (2026) Synergistic effects of Akebia saponin D and Semaglutide on diabetic nephropathy and osteoporosis via the Klotho/p53 signaling axis. *International journal of molecular medicine*, 57(1).

Cheng M, et al. (2026) Targeting p38 MAPK signaling pathway: Quercetin as a novel therapy for TMJ synovitis. *International journal of molecular medicine*, 57(1).

Xu J, et al. (2026) FGF19 in Solid Tumors: Molecular Mechanisms, Metabolic Reprogramming, and Emerging Therapeutic Opportunities. *Theranostics*, 16(1), 345.

Jia C, et al. (2026) Machine learning and network pharmacology identify keloid biomarkers (AMPH, TNFRSF9) and therapeutic targets (IL6, HAS2) for aloe-derived quercetin. *PloS one*, 21(1), e0340960.

Zeng S, et al. (2026) Multiscale imaging on proton pump-driven acidity for assessing tumor progression and metastasis. *Nature communications*, 17(1), 1785.

Cho SC, et al. (2026) Virtual screening of novel alkaloids as potent inhibitors for G2032R-mutant ROS1 kinase in non-small-cell lung cancer. *Scientific reports*, 16(1), 5342.

Olowosoke CB, et al. (2026) In-silico assessment of phytochemical derivatives generated using CHEESE webserver for advancement of druggable candidate in pancreatic cancer therapy. *In silico pharmacology*, 14(1), 32.

Tan L, et al. (2026) Indigestible carbohydrates suppress colorectal cancer through IRF6/TRAF3/IFN γ pathway. *Discover oncology*, 17(1), 275.

Zhang F, et al. (2026) A comprehensive study integrating bioinformatics analysis and experimental results on HROB as a potential biomarker for the prognosis of lung

adenocarcinoma. *Scientific reports*, 16(1), 5056.

Ge S, et al. (2026) Discovery and design of novel glucoamylases suitable for raw starch hydrolysis at moderate temperatures via an integrated bioinformatics-assisted strategy. *Biotechnology for biofuels and bioproducts*, 19(1), 16.

Peng X, et al. (2026) Deciphering stromal cell interactions in osteosarcoma highlights CDKN2A and MMP14 as novel diagnostic and therapeutic biomarkers. *European journal of medical research*, 31(1), 329.

Chen C, et al. (2026) Computational-experimental study reveals direct target and bioactives of *Ajania fruticulosa* against NAFLD via TLR2/NF- κ B/PPAR- γ signaling. *NPJ science of food*, 10(1), 73.

Li Y, et al. (2026) 12-HETE is an Endogenous Modulator of BLT2 Triggering Vascular Degeneration, Dissection, and Rupture. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(5), e15897.

Wang X, et al. (2026) Ribosomal Protein RPL29 Promotes Hepatocellular Carcinoma Progression Through Regulation the Expression of Exosome Component 4. *Biological procedures online*, 28(1), 7.

He Y, et al. (2026) Mitochondrial-related biomarkers as the diagnostic markers in sepsis induced acute respiratory distress syndrome. *European journal of medical research*, 31(1), 199.

Sankaran S, et al. (2026) Exploring the properties of benzenoid hydrocarbons through QSPR modeling and domination-based energy parameters. *Scientific reports*, 16(1), 3839.

Yan F, et al. (2026) Effects of Blood Pressure and Antihypertensive Drugs on Rheumatoid Arthritis: A Mendelian Randomization, Network Pharmacology, and Experimental Validation. *International journal of general medicine*, 19, 575696.

Peng L, et al. (2026) Rupestonic Acid of *Artemisia Rupestris* L. Extract Treats Pulmonary Fibrosis in COPD by Targeting TGF- β 1. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(9), e05256.

Du T, et al. (2026) Predicting Sweetness Intensity and Uncovering Quantitative Interactions of Mixed Sweeteners: A Machine Learning Approach. *Foods* (Basel, Switzerland), 15(1).