

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 2026

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

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 [SPARC SAWG](#) .

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/TRAFF3/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).