

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

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 2802 mentions in open access literature.

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

Dos Santos MG, et al. (2026) Effects of quercetin and its derivatives in in vivo models of neuroinflammation: A systematic review and meta-analysis. Neural regeneration research, 21(5), 1783.

Zhou P, et al. (2026) Exploring the role of cytochrome P450 family 1 subfamily B member 1 and quercetin in modulating neuropathic pain after spinal cord injury. Molecular medicine reports, 33(1).

Putra WE, et al. (2026) Integrative computational approach to farnesyltransferase inhibition toward anti-liver cancer drug candidate from Syzygium cumini essential oils. Molecular biology research communications, 15(1), 49.

Wakid MH, et al. (2026) Kaempferol activity on Cryptosporidium parvum infection in an experimentally infected immunocompromised mouse model: In silico and in vivo investigations. Pharmaceutical biology, 64(1), 27.

Shi D, et al. (2026) Gut microbiota-derived tryptophan metabolite indole-3-carboxaldehyde enhances intestinal barrier function via aryl hydrocarbon receptor/AMP-activated protein kinase signaling activation. Animal bioscience, 39(1), 250225.

Xiang F, et al. (2026) Integrative multiomics analysis reveals the ameliorative effects of Xiasangju on metabolic dysfunction-associated steatohepatitis. Chinese medicine, 21(1), 3.

Li L, et al. (2026) Hyperoside prevents osteoporosis by activating the PI3K/AKT signaling pathway to inhibit oxidative stress and promote osteogenesis. Molecular medicine reports, 33(2).

Chiang YC, et al. (2026) Multi-Omics and Single-Cell Dissection of Exostosin Glycosyltransferases (EXT1/EXT2) Reveals Divergent Oncogenic Roles and Therapeutic Vulnerabilities in Gliomas. Journal of Cancer, 17(1), 177.

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

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

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).

Liu J, et al. (2026) Dietary supplementation with *Eucommia ulmoides* improves production performance, egg quality, meat characteristics and physiological status of aging laying hens. *Poultry science*, 105(1), 106156.

Wang R, et al. (2026) Apolipoprotein C1 functions as a target of thyroid carcinoma and synergistic effects with promising candidate-cyclopamine. *Translational oncology*, 63, 102617.

Huang L, et al. (2026) New insight into the epidemiological trends of respiratory syncytial virus infection and the underlying anti-respiratory syncytial virus mechanisms of andrographolide: integrating Global Burden of Disease database, network pharmacological analysis, and in vitro experiments. *Microbiology spectrum*, 14(1), e0234125.

Oh KK, et al. (2026) A roadmap to unveil the mechanism(s) of natural indole-derived molecules against NAFLD-derived HCC via systems pharmacology. *Translational oncology*, 63, 102618.

Deng T, et al. (2025) Mechanism of Guigan Longmu Decoction in the Treatment of Arrhythmias Based on Network Pharmacology and Untargeted Metabolomics Assays. *Combinatorial chemistry & high throughput screening*, 28(8), 1384.

Kim S, et al. (2025) Glycoscience data content in the NCBI Glycans and PubChem. *Analytical and bioanalytical chemistry*, 417(5), 865.

Al-Shami AS, et al. (2025) Early-life bisphenol A exposure causes neuronal pyroptosis in juvenile and adult male rats through the NF- κ B/IL-1 β /NLRP3/caspase-1 signaling pathway: exploration of age and dose as effective covariates using an in vivo and in silico modeling approach. *Molecular and cellular biochemistry*, 480(4), 2301.

Yao Y, et al. (2025) Construction and validation of a regulatory T cells-based classification of renal cell carcinoma: an integrated bioinformatic analysis and clinical cohort study. *Cellular oncology (Dordrecht, Netherlands)*, 48(3), 591.