

Resource Summary Report

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MacroModel

RRID:SCR_016747

Type: Tool

Proper Citation

MacroModel (RRID:SCR_016747)

Resource Information

URL: <https://www.schrodinger.com/macromodel>

Proper Citation: MacroModel (RRID:SCR_016747)

Description: Software package for molecular modeling. Computes free energy changes using free energy perturbation method. Used to examine molecular conformations, molecular motion, and intermolecular interactions, such as those in a ligand-receptor complex.

Resource Type: simulation software, software application, software resource

Keywords: molecular, modeling, free, energy, changes, perturbation, method, conformation, motion, interaction, ligand, receptor, complex

Availability: Commercially available, Free version available

Resource Name: MacroModel

Resource ID: SCR_016747

Alternate URLs: <https://en.freedownloadmanager.org/Windows-PC/MacroModel.html>

Record Creation Time: 20220129T080332+0000

Record Last Update: 20260829T182522+0000

Ratings and Alerts

No rating or validation information has been found for MacroModel.

No alerts have been found for MacroModel.

Data and Source Information

Usage and Citation Metrics

We found 138 mentions in open access literature.

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

Sequeira L, et al. (2026) Chromones as Nonclassical Inhibitors of Carbonic Anhydrase IX and XII Isoforms: Probing Chromone-Based Derivatives. *Archiv der Pharmazie*, 359(3), e70224.

Kang S, et al. (2025) Discovery of a selective dual-specificity tyrosine phosphorylation-regulated kinase 1B inhibitor with anti-adipogenic and anti-diabetic activities. *Frontiers in pharmacology*, 16, 1645033.

Farag A, et al. (2025) Repurposing rupatadine as topical treatment against methicillin-resistant *Staphylococcus aureus*. *AMB Express*, 15(1), 132.

Varró N, et al. (2025) Betaine-Conjugated β -Peptide Foldamers: Influence of Quaternary Charge on Self-Organization and Morphology Formation. *ChemistryOpen*, 14(12), e202500340.

Al-Sanea MM, et al. (2023) Design, synthesis, and biological investigation of oxadiazolyl, thiadiazolyl, and pyrimidinyl linked antipyrine derivatives as potential non-acidic anti-inflammatory agents. *Journal of enzyme inhibition and medicinal chemistry*, 38(1), 2162511.

Balouch M, et al. (2023) Computational Prodrug Design Methodology for Liposome Formulability Enhancement of Small-Molecule APIs. *Molecular pharmaceutics*, 20(4), 2119.

Federico S, et al. (2022) Azetidin-2-one-based small molecules as dual hHDAC6/HDAC8 inhibitors: Investigation of their mechanism of action and impact of dual inhibition profile on cell viability. *European journal of medicinal chemistry*, 238, 114409.

Lachowicz JI, et al. (2022) Thymosin γ 4 Is an Endogenous Iron Chelator and Molecular Switcher of Ferroptosis. *International journal of molecular sciences*, 23(1).

Fois B, et al. (2021) Flavonoids and Acid-Hydrolysis derivatives of Neo-Clerodane diterpenes from *Teucrium flavum* subsp. *glaucum* as inhibitors of the HIV-1 reverse transcriptase-associated RNase H function. *Journal of enzyme inhibition and medicinal chemistry*, 36(1), 749.

Rösch AT, et al. (2021) Rotational Isomerism of an Amide Substituted Squaraine Dye: A Combined Spectroscopic and Computational Study. *The Journal of organic chemistry*, 86(18), 13100.

Matiadis D, et al. (2021) Curcumin Derivatives as Potential Mosquito Larvicidal Agents against Two Mosquito Vectors, *Culex pipiens* and *Aedes albopictus*. *International journal of molecular sciences*, 22(16).

Meleddu R, et al. (2021) Exploring New Scaffolds for the Dual Inhibition of HIV-1 RT Polymerase and Ribonuclease Associated Functions. *Molecules (Basel, Switzerland)*, 26(13).

Kiper AK, et al. (2021) Identification of a critical binding site for local anaesthetics in the side pockets of Kv 1 channels. *British journal of pharmacology*, 178(15), 3034.

Rodríguez-Salarichs J, et al. (2021) Versatile Lipases from the *Candida rugosa*-like Family: A Mechanistic Insight Using Computational Approaches. *Journal of chemical information and modeling*, 61(2), 913.

Oliveira D, et al. (2021) 2-(2-Methyl-2-nitrovinyl)furan but Not Furfural Interfere with *Staphylococcus aureus* Agr Quorum-Sensing System and Potentiate the Action of Fusidic Acid against Biofilms. *International journal of molecular sciences*, 22(2).

Bellone ML, et al. (2021) Limonoids from *Guarea guidonia* and *Cedrela odorata*: Heat Shock Protein 90 (Hsp90) Modulator Properties of Chisomicine D. *Journal of natural products*, 84(3), 724.

Saldanha LL, et al. (2021) Hypoglycemic active principles from the leaves of *Bauhinia holophylla*: Comprehensive phytochemical characterization and in vivo activity profile. *PloS one*, 16(9), e0258016.

Marchetti G, et al. (2020) Syk Inhibitors: New Computational Insights into Their Intraerythrocytic Action in *Plasmodium falciparum* Malaria. *International journal of molecular sciences*, 21(19).

Tsuchiya Y, et al. (2020) Molecular Design Based on Donor-Weak Donor Scaffold for Blue Thermally-Activated Delayed Fluorescence Designed by Combinatorial DFT Calculations. *Frontiers in chemistry*, 8, 403.

Pruijssers AJ, et al. (2020) Remdesivir Inhibits SARS-CoV-2 in Human Lung Cells and Chimeric SARS-CoV Expressing the SARS-CoV-2 RNA Polymerase in Mice. *Cell reports*, 32(3), 107940.