

Resource Summary Report

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PREDDIMER

RRID:SCR_011963

Type: Tool

Proper Citation

PREDDIMER (RRID:SCR_011963)

Resource Information

URL: <http://model.nmr.ru/preddimer/>

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Description: Prediction tool to reconstruct putative dimer conformations for given sequences of transmembrane protein fragments, which are considered as ideal alpha-helices.

Abbreviations: PREDDIMER

Synonyms: PREDDIMER - Prediction tool for an ensemble of transmembrane α -helical dimer conformations

Resource Type: analysis service resource, data analysis service, production service resource, service resource

Defining Citation: [PMID:24202542](#)

Keywords: bio.tools

Availability: Free

Resource Name: PREDDIMER

Resource ID: SCR_011963

Alternate IDs: OMICS_01614, biotools:preddimer

Alternate URLs: <https://bio.tools/preddimer>

Record Creation Time: 20220129T080307+0000

Record Last Update: 20260912T200207+0000

Ratings and Alerts

No rating or validation information has been found for PREDDIMER.

No alerts have been found for PREDDIMER.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 15 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#).

Corcoran WK, et al. (2024) Exploring structure-function relationships in engineered receptor performance using computational structure prediction. bioRxiv : the preprint server for biology.

Rybak JA, et al. (2023) Allosteric inhibition of the epidermal growth factor receptor through disruption of transmembrane interactions. The Journal of biological chemistry, 299(7), 104914.

Drake LA, et al. (2023) Differential pairing of transmembrane domain GxxxG dimerization motifs defines two HLA-DR MHC class II conformers. The Journal of biological chemistry, 299(7), 104869.

Khan AS, et al. (2023) Novel Fat Taste Receptor Agonists Curtail Progressive Weight Gain in Obese Male Mice. Cellular and molecular gastroenterology and hepatology, 15(3), 633.

Lockey C, et al. (2022) Characterization of interactions within the Ig γ /Ig γ transmembrane domains of the human B-cell receptor provides insights into receptor assembly. The Journal of biological chemistry, 298(5), 101843.

Westerfield JM, et al. (2021) Conformational Clamping by a Membrane Ligand Activates the EphA2 Receptor. Journal of molecular biology, 433(18), 167144.

Matamoros-Recio A, et al. (2021) Full-Atom Model of the Agonist LPS-Bound Toll-like Receptor 4 Dimer in a Membrane Environment. Chemistry (Weinheim an der Bergstrasse, Germany), 27(62), 15406.

Cymer F, et al. (2021) Small Residues Inhibit Homo-Dimerization of the Human Carbonic Anhydrase XII Transmembrane Domain. Membranes, 11(7).

García-Murria MJ, et al. (2020) Viral Bcl2s' transmembrane domain interact with host Bcl2 proteins to control cellular apoptosis. Nature communications, 11(1), 6056.

Xiao Y, et al. (2020) Experimental determination and data-driven prediction of homotypic transmembrane domain interfaces. Computational and structural biotechnology journal, 18, 3230.

Wang X, et al. (2020) An evolutionarily conserved motif is required for Plasmodesmata-located protein 5 to regulate cell-to-cell movement. *Communications biology*, 3(1), 291.

Bocharov EV, et al. (2018) Structural basis of the signal transduction via transmembrane domain of the human growth hormone receptor. *Biochimica et biophysica acta. General subjects*, 1862(6), 1410.

De Vecchis D, et al. (2017) A membrane-inserted structural model of the yeast mitofusin Fzo1. *Scientific reports*, 7(1), 10217.

Maurice P, et al. (2016) New Insights into Molecular Organization of Human Neuraminidase-1: Transmembrane Topology and Dimerization Ability. *Scientific reports*, 6, 38363.

Campbell JH, et al. (2014) Folding and self-association of atTic20 in lipid membranes: implications for understanding protein transport across the inner envelope membrane of chloroplasts. *BMC biochemistry*, 15, 29.