

Resource Summary Report

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GlyProt

RRID:SCR_001560

Type: Tool

Proper Citation

GlyProt (RRID:SCR_001560)

Resource Information

URL: <http://www.glycosciences.de/modeling/glyprot/>

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Description: Web-based tool that enables meaningful N-glycan conformations to be attached to all the spatially accessible potential N-glycosylation sites of a known three-dimensional (3D) protein structure. The 3D structure of protein is required as input. Potential N-glycosylation sites are automatically detected. The attached glycans are constructed with SWEET-II, <http://www.glycosciences.de/modeling/sweet2/doc/index.php>

Abbreviations: GlyProt

Synonyms: GlyProt - In Silico Glycosylation of Proteins

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

Defining Citation: [PMID:15980456](#)

Keywords: glycosylation, protein, in silico, 3d structure, protein structure, glycan, n-glycan, glycoprotein, bio.tools

Funding: DFG

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: GlyProt

Resource ID: SCR_001560

Alternate IDs: biotools:glyprot, nlx_152875

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

Old URLs: <http://www.glycosciences.de/glyprot/>

Record Creation Time: 20220129T080208+0000

Record Last Update: 20260905T133114+0000

Ratings and Alerts

No rating or validation information has been found for GlyProt.

No alerts have been found for GlyProt.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 39 mentions in open access literature.

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

George S, et al. (2025) Evolutionary dynamics and molecular epidemiology of H1N1 pandemic 2009 influenza A viruses across swine farms in Denmark. *Virus evolution*, 11(1), veaf014.

Nishio S, et al. (2024) ZP2 cleavage blocks polyspermy by modulating the architecture of the egg coat. *Cell*, 187(6), 1440.

Moeini S, et al. (2023) Phylogenetic analysis and docking study of neuraminidase gene of influenza A/H1N1 viruses circulating in Iran from 2010 to 2019. *Virus research*, 334, 199182.

Liu Y, et al. (2023) Glycosylation Contributes to Thermostability and Proteolytic Resistance of rFIP-nha (*Nectria haematococca*). *Molecules (Basel, Switzerland)*, 28(17).

Fresquet M, et al. (2022) Structure of PLA2R reveals presentation of the dominant membranous nephropathy epitope and an immunogenic patch. *Proceedings of the National Academy of Sciences of the United States of America*, 119(29), e2202209119.

Yrjänäinen A, et al. (2022) Biochemical and Biophysical Characterization of Carbonic Anhydrase VI from Human Milk and Saliva. *The protein journal*, 41(4-5), 489.

Baek DS, et al. (2022) A highly-specific fully-human antibody and CAR-T cells targeting CD66e/CEACAM5 are cytotoxic for CD66e-expressing cancer cells in vitro and in vivo. *Cancer letters*, 525, 97.

Zhang H, et al. (2022) A conserved asparagine residue in the inner surface of BRI1 superhelix is essential for protein native conformation. *Biochemical and biophysical research communications*, 615, 49.

Montoya V, et al. (2021) Variable routes to genomic and host adaptation among coronaviruses. *Journal of evolutionary biology*, 34(6), 924.

Mielke D, et al. (2021) ADCC-mediating non-neutralizing antibodies can exert immune pressure in early HIV-1 infection. *PLoS pathogens*, 17(11), e1010046.

Sanchez D, et al. (2021) The Lipocalin Apolipoprotein D Functional Portrait: A Systematic Review. *Frontiers in physiology*, 12, 738991.

Duerr R, et al. (2021) SARS-CoV-2 Portrayed against HIV: Contrary Viral Strategies in Similar Disguise. *Microorganisms*, 9(7).

Seitz C, et al. (2020) Multiscale Simulations Examining Glycan Shield Effects on Drug Binding to Influenza Neuraminidase. *Biophysical journal*, 119(11), 2275.

Benedetti S, et al. (2020) Lupinus albus α -Conglutin, a Protein Structurally Related to GH12 Xyloglucan-Specific Endo-Glucanase Inhibitor Proteins (XEGIPs), Shows Inhibitory Activity against GH2 α -Mannosidase. *International journal of molecular sciences*, 21(19).

Wintjens R, et al. (2020) Impact of glycan cloud on the B-cell epitope prediction of SARS-CoV-2 Spike protein. *NPJ vaccines*, 5, 81.

Kawakami C, et al. (2019) Genetic and antigenic characterisation of influenza A(H3N2) viruses isolated in Yokohama during the 2016/17 and 2017/18 influenza seasons. *Euro surveillance : bulletin Europeen sur les maladies transmissibles = European communicable disease bulletin*, 24(6).

Hill LA, et al. (2019) N-Glycosylation influences human corticosteroid-binding globulin measurements. *Endocrine connections*, 8(8), 1136.

Mohebbi A, et al. (2019) Molecular epidemiology of the hemagglutinin gene of prevalent influenza virus A/H1N1/pdm09 among patient in Iran. *Virus research*, 259, 38.

Gu J, et al. (2018) Escape of Hepatitis C Virus from Epitope I Neutralization Increases Sensitivity of Other Neutralization Epitopes. *Journal of virology*, 92(9).

Lee CY, et al. (2018) Acquisition of Innate Inhibitor Resistance and Mammalian Pathogenicity During Egg Adaptation by the H9N2 Avian Influenza Virus. *Frontiers in microbiology*, 9, 1939.