

Resource Summary Report

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GlyTorsion

RRID:SCR_001568

Type: Tool

Proper Citation

GlyTorsion (RRID:SCR_001568)

Resource Information

URL: <http://www.glycosciences.de/tools/glytorsion/>

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Description: Service that performs a statistical analysis of carbohydrate torsion angles derived from the Protein Data Bank. Such as protein conformation can be described by the backbone torsion angles, a carbohydrate structure is mainly characterised by its linkage torsions. With the aid of pdb2linucs, a dataset of carbohydrate torsion angles was derived from from carbohydrate structures found in the PDB. This weekly updated dataset contains, besides linkage torsions, also ring torsions, omega torsions, N-acetylene group torsions and sidechain torsions of Asn residues involved in Glycan bonds. It can be queried by GlyTorsion.

Abbreviations: GlyTorsion

Synonyms: GlyTorsion: Analysis of Carbohydrate Torsion Angles found in the Protein Data Bank (PDB)

Resource Type: analysis service resource, data analysis service, data or information resource, data set, production service resource, service resource

Defining Citation: [PMID:15608187](#)

Keywords: carbohydrate, torsion angle, torsion, angle, linkage torsion, ring torsion, omega torsion, n-acetylene group torsion, sidechain torsion, asn residue, glycan bond, statistical analysis

Funding: DFG

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: GlyTorsion

Resource ID: SCR_001568

Alternate IDs: nlx_152881

Record Creation Time: 20220129T080208+0000

Record Last Update: 20260821T193626+0000

Ratings and Alerts

No rating or validation information has been found for GlyTorsion.

No alerts have been found for GlyTorsion.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Frank M, et al. (2014) Immunoglobulin G1 Fc domain motions: implications for Fc engineering. *Journal of molecular biology*, 426(8), 1799.

Lütteke T, et al. (2012) The use of glycoinformatics in glycochemistry. *Beilstein journal of organic chemistry*, 8, 915.

Lütteke T, et al. (2009) Analysis and validation of carbohydrate three-dimensional structures. *Acta crystallographica. Section D, Biological crystallography*, 65(Pt 2), 156.

Xu D, et al. (2009) Distinct glycan topology for avian and human sialopentasaccharide receptor analogues upon binding different hemagglutinins: a molecular dynamics perspective. *Journal of molecular biology*, 387(2), 465.