Resource Summary Report

Generated by dkNET on May 21, 2025

SWEET-DB

RRID:SCR_005324
Type: Tool

Proper Citation

SWEET-DB (RRID:SCR_005324)

Resource Information

URL: http://www.glycosciences.de/modeling/sweet2/

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Description: Program that rapidly converts the primary sequence of a complex carbohydrate, as defined by standard nomenclature, directly into a reliable 3D molecular model by linking together preconstructed 3D molecular templates of monosaccharides in the manner specified by the sequence and then optimizing the 3D structure using the MM3 force field. The user interaction is supported by an input spreadsheet consisting of a grid of sugar symbol and connection type cells. Several ways to visualize and to output the generated structures and related information are implemented.

Abbreviations: SWEET, SWEET2

Synonyms: SWEET II, Sweet-2

Resource Type: data access protocol, data analysis service, service resource, web service, software resource, analysis service resource, production service resource

Defining Citation: PMID:10498779

Keywords: carbohydrate, saccharide, 3d model, sequence, oligosaccharide, polysaccharide, 3d spatial image, carbohydrate sequence, modeling, carbohydrate modeling

Funding:

Resource Name: SWEET-DB

Resource ID: SCR_005324

Alternate IDs: nif-0000-03520

Old URLs: http://www.dkfz-heidelberg.de/spec2/sweetdb/, http://www.glycosciences.de/sweetdb/

Record Creation Time: 20220129T080229+0000

Record Last Update: 20250521T061030+0000

Ratings and Alerts

No rating or validation information has been found for SWEET-DB.

No alerts have been found for SWEET-DB.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

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

Mazola Y, et al. (2011) Integrating bioinformatics tools to handle glycosylation. PLoS computational biology, 7(12), e1002285.