

DrugBank

A comprehensive bioinformatics and cheminformatics resource combining detailed drug data with drug target, sequence, and pathway information.

<https://example.com/1762583716457>

Overview

The DrugBank database is a unique and richly annotated bioinformatics and cheminformatics resource that integrates detailed drug (chemical, pharmacological, and pharmaceutical) data with comprehensive drug target (sequence, structure, and pathway) information. It originated as a research project at the University of Alberta in 2006, with the commercial company (DrugBank) being spun off in 2015/2016. DrugBank is the world's largest pharmaceutical knowledge database, offering a one-stop shop for curated scientific and clinical data. It is widely used to facilitate *in silico* drug target discovery, drug design, drug docking or screening, drug metabolism prediction, drug interaction prediction, and general pharmaceutical education. Key features include advanced search tools like TextQuery, ChemQuery, and SeqSearch (BLAST), a relational Data Extractor, and extensive data fields covering drug-drug/food-drug interactions, and ADMET (Absorption, Distribution, Metabolism, Excretion, Toxicity) parameters. The platform is available for free public/academic access via the DrugBank Online website, while commercial use, data redistribution, and API access require a paid license. The data is also used to power Clinical Intelligence APIs for software integration, supporting precision medicine and machine learning models.

Key Features

- Comprehensive Drug Data (Chemical, Pharmacological)
- Comprehensive Drug Target Information (Sequence, Pathway)
- Drug-Drug and Food-Drug Interaction Data
- Advanced Search (ChemQuery, SeqSearch/BLAST)
- Relational Data Extraction Tool
- ADMET Prediction Data
- Clinical Intelligence API

Pricing

Model: freemium

Free access to DrugBank Online for public and academic users. Paid commercial licenses are required for data redistribution, bulk downloads, and API access. Pricing is not publicly disclosed and requires contacting the sales team.

Target Company Size: startup, small, medium, enterprise, academic

Compliance & Certifications

HIPAA (alignment), SOC 2 (alignment), ISO 27001 (alignment)

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