

Resource Summary Report

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SuperHapten Database

RRID:SCR_005278

Type: Tool

Proper Citation

SuperHapten Database (RRID:SCR_005278)

Resource Information

URL: <http://bioinformatics.charite.de/superhapten>

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Description: A database of haptens. It compiles 2D/3D structures, physicochemical properties and references for about 7500 haptens and 25,000 synonyms. Commercial availability is documented for about 6300 haptens and 450 related antibodies, enabling experimental approaches on cross-reactivity. The immune system protects organisms from foreign proteins, peptide epitopes and a multitude of chemical compounds. Among these, haptens are small molecules, eliciting an immune response when conjugated with carrier molecules. Known haptens are xenobiotics or natural compounds, which can induce a number of autoimmune diseases like contact dermatitis or asthma. Furthermore, haptens are utilized in the development of biosensors, immunomodulators and new vaccines. Although hapten-induced allergies account for 6-10% of all adverse drug effects, the understanding of the correlation between structural and haptenic properties is rather fragmentary. We have developed a manually curated hapten database, SuperHapten, integrating information from literature and web resources. The current version of the database compiles 2D/3D structures, physicochemical properties and references for about 7500 haptens and 25,000 synonyms. The commercial availability is documented for about 6300 haptens and 450 related antibodies, enabling experimental approaches on cross-reactivity. The haptens are classified regarding their origin: pesticides, herbicides, insecticides, drugs, natural compounds, etc. Queries allow identification of haptens and associated antibodies according to functional class, carrier protein, chemical scaffold, composition or structural similarity. keywords: hapten

Synonyms: SuperHapten Database

Resource Type: data or information resource, database

Resource Name: SuperHapten Database

Resource ID: SCR_005278

Alternate IDs: nif-0000-03512

Record Creation Time: 20220129T080229+0000

Record Last Update: 20260811T043230+0000

Ratings and Alerts

No rating or validation information has been found for SuperHapten Database.

No alerts have been found for SuperHapten Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.