

Compound Collection

Academic research groups have access to more than 200 000 small molecules for biological screening purposes.

The collection is suitable for different type of test systems, spanning from isolated targets via phenotypic cell based assays to test system based on whole organisms as parasites or plants.

After obtaining hit compounds, follow up material are available for further validation and down stream profiling.

The SciLifeLab Compound Collection originates from the *pharmaceutical industry* (Biovitrum, Karobio, Orexo/Biolipox, KDev) and has been developed and expanded with compounds from various commercial compound vendors.

The available screening collections are spanning from *chemically diverse sets* to *approved drugs* (Prestwick) and *pharmacological tool compounds* (from Astra Zeneca, the Structural Genomics Center (SGC) and vendors as ENZO, Tocris, Selleck).

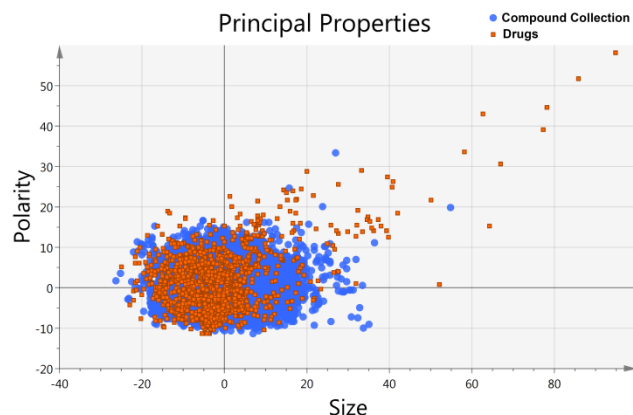
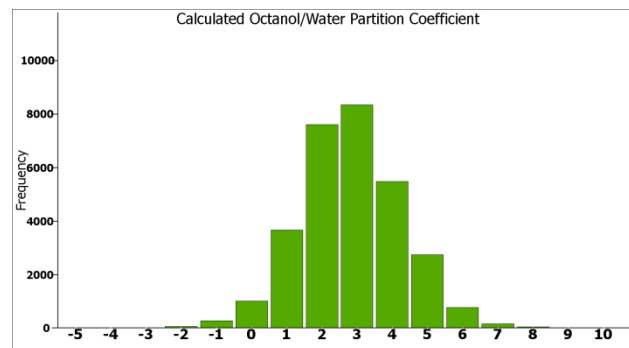
The *Primary Screening Set* comprises ~35K compounds that are chemically diverse and have lead- to drug-like properties with respect to parameters such as molecular weight, hydrogen bond accepting and donating groups, lipophilicity and polar surface area. Filters addressing reactivity, PAINS and aggregation issues have been applied to assure tractable hit compounds.

Various focused sets are also available such as kinase-, GPCRs- and PPI-targeted compounds.

The collection also comprises a unique set - ACC - *the Academic Compound Collection*.

The Chemical Biology Consortium Sweden, CBCS, participates in a project establishing a collection of compounds that chemists in the Nordic countries synthesize or purify from natural sources as part of their research. These compounds populate unique regions of chemical space that in many cases have not yet been explored and therefore are of high interest for screening.

Profile of the Primary Screening Set:



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