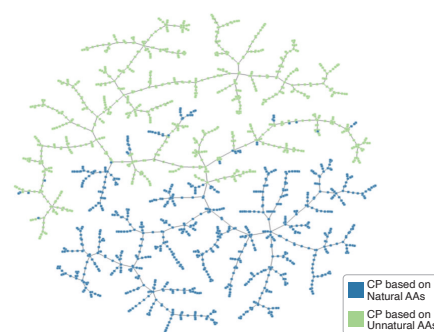
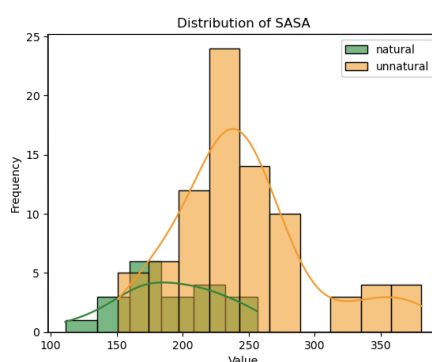
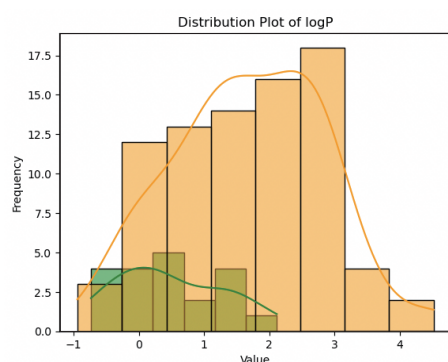




HitChem Cyclic Peptide Library

Physical CP Library	Virtual CP Library	Format
1,500 Compounds	150M Compounds	Solution in 384 well plates & Powders

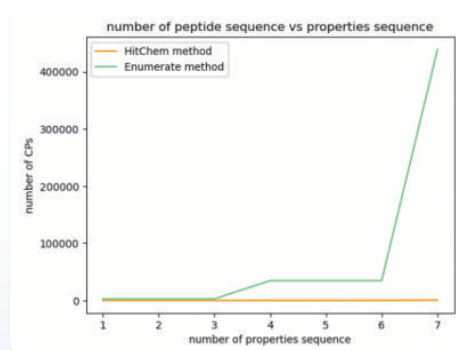
- Explore unique chemical space with unnatural amino acid monomers
- Proprietary algorithm to maximize both sequence and property diversity



Unnatural amino acids (AAs) have drug-like lipophilicity and larger surface area compared with natural amino acid

Unique chemical space occupied by unnatural AAs

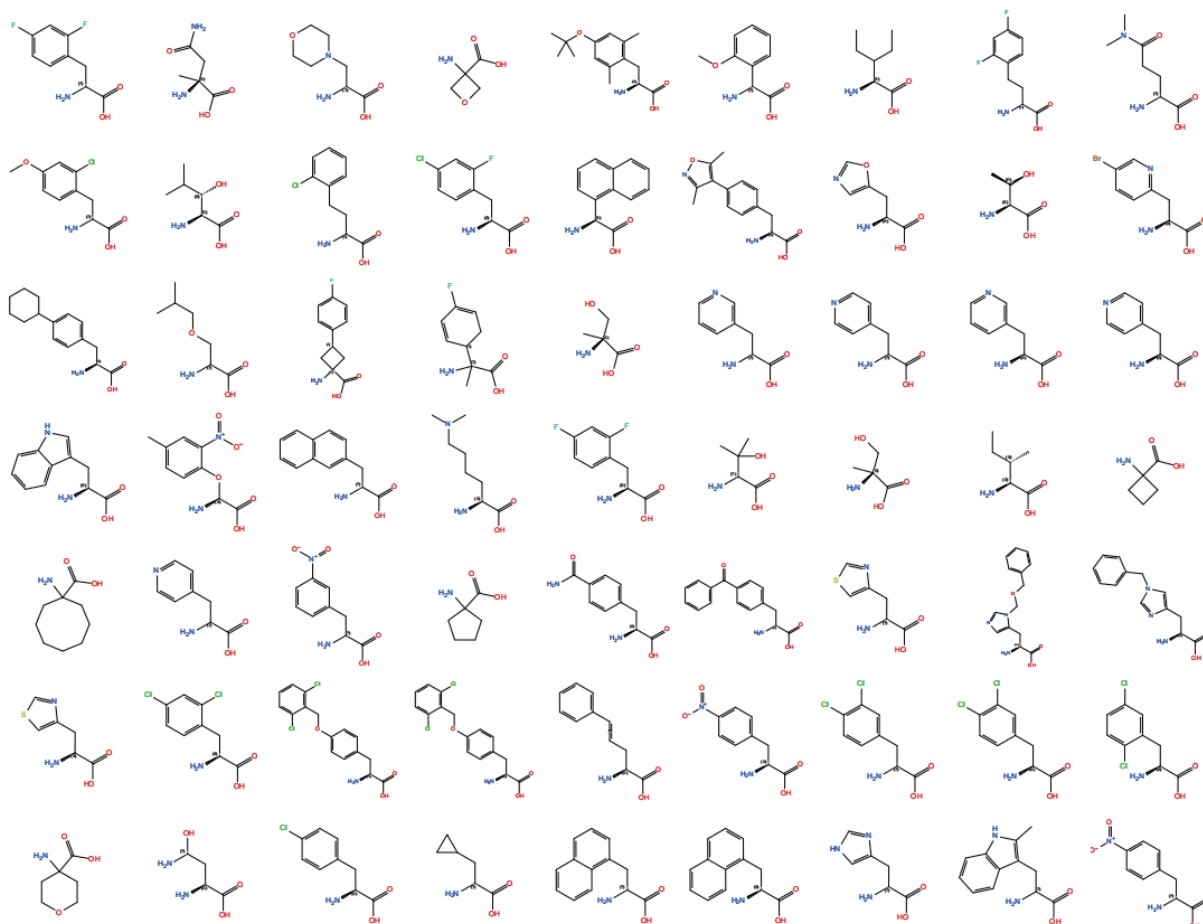
Plate-1	Mean percentage inhibition(%)	STDEV	Test Concentration (uM)
Cmpd 54	94.93	2.28	10
Cmpd 96	92.72	2.42	10
Cmpd 110	79.23	3.26	10
Cmpd 12	76.68	0.19	10
Cmpd 100	74.26	0.03	10
Cmpd 98	71.79	6.08	10
Cmpd 34	66.83	0.60	10
Cmpd 74	66.37	19.21	10
Cmpd 82	63.96	0.16	10
Cmpd 117	53.92	7.25	10
Cmpd 13	52.25	3.64	10
Cmpd 111	50.27	4.80	10



Screening Campaign Against TCF4 & CTNNB1
Hit Rate: 12/140 (with inhibition rate >50%)

HitChem's method effectively minimizes the redundancy of amino acid sequences

Unnatural Amino Acid Monomers



Cyclic Peptide Sample Set

