

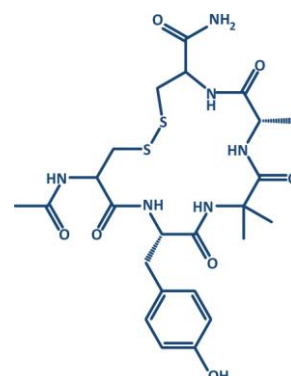
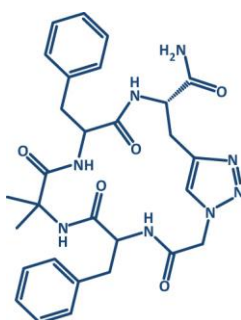
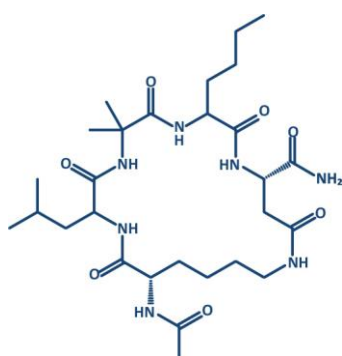
Prestwick Peptidic Macrocycle Library

Innovative chemistry for therapeutic, diagnostic and cosmetic applications

Macrocycles are compounds containing ring architecture of 12 or more atoms. They possess a structure that affords a degree of conformational pre-organization due to restricted rotation, but they are not rigid compounds. Macrocyclization can provide a method of improving target potency and modulating selectivity – they are highly potent as well as selective. Although many of macrocyclic *compounds* are beyond strict Lipinski's Rule of Five they still possess properties that make them interesting as potential drug candidates.

Cyclic peptides in comparison to their linear counterparts combine multiple interesting properties like better binding affinity, better target selectivity, low toxicity and improved enzymatic stability. There are over 40 cyclic peptide drugs in clinical use and every year at least one new cyclic peptide drug enters the market. There are 3 major origins of macrocyclic peptides: natural products, rational design of new compounds or compounds libraries.

PRESTWICK CHEMICAL /GENEPEP propose a library of high purity 400 short macrocyclic peptides designed with a mix of natural and non-natural amino acids and different types of cyclization (disulfide, lactam, triazole). This library is a great starting point for enzyme inhibitors, agonists or antagonists of GPCRs, protein-protein interaction disruptors (inhibitors).



- A collection of 400 short (5 amino acids), chemically synthesized peptide macrocycles containing natural and non-natural amino acids
- 17 or 20-membered ring
- Different cyclization motifs (disulfide, lactam, triazole)
- Constrained, stabilized peptide sequences with exposed side chains
- Conveniently prepared, ready for multiple screenings
- Lyophilized form (0.1µmol) or powder form (on request)

