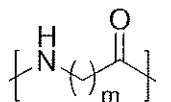


PEPTIDE LIBRARIES FOR SCREENING AND OTHER APPLICATIONS

ABSTRACT

The present invention generally relates to various peptides and particles, for example, for use in screening of particle- or bead-based peptide libraries. In one aspect, the present invention is generally directed to articles including peptides attached to one or more particles, which may have structures such as (particle)-M-Q-Z_n-X-J, (particle)-M-Q-Z_n-X¹-X²-X³-X⁴-X⁵-J, (particle)-M-R-Z₂-X¹-X²-X³-X⁴-X⁵-J, (particle)-M-X¹-X²-X³-X⁴-X⁵-Z_n-Q-J, (particle)-M¹-X¹-X²-X³-X⁴-X⁵-Z_n-R-J, etc., where M is a methionine residue, M¹ is a cleavable linker residue, Q is a group able to enhance intensity and/or sensitivity of mass spectrometry, X comprises one or more amino acid residues, n is a positive integer, Z is a covalent bond or a spacer, and J is an endgroup. In some embodiments, the spacer may comprise a structure such as:



Other aspects of the present invention generally relate to methods of using such articles, e.g., by exposing the article to a target molecule such as a protein, for example, for use in screening of particle-based peptide libraries. Still other aspects of the present invention generally relate to methods of making such articles, methods of promoting such articles, kits involving such articles, or the like.

[Fig. 1]