Immunoaffinity Chromatography Using Epitope Tags To Polyol-responsive Monoclonal Antibodies

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The Invention

Disclosed is a method of isolating, purifying, or concentrating a target compound. The method includes the steps of onjugating the target compound to an epitope for a polyol-responsive monoclonal antibody (PR-mAb) to yield a conjugate; and then contacting the conjugate to an immunoaffinity matrix comprising a PR-mAb specifically reactive with the PR-mAb epitope. Preferred epitopes for use in the method include amino acids of from 4 to about 30 amino acids, wherein the amino acid sequence comprises the sub-sequence D-X-S-R, (where X is any natural or unnatural amino acid), such as TKDPSRVG and TQDPSRVG. Additional epitopes for use in the method include SLAELLNGLGGS and PTSPSYSPTSPSYS. The method enables the rapid isolation of desired target compounds under gentle purification conditions.

Tech Fields

- Research Tools : Protein interactions & function

For current licensing status, please contact Jennifer Gottwald at jennifer@warf.org or 608-960-9854