

Title (en)
SELECTIVE COVALENT-BINDING COMPOUNDS HAVING THERAPEUTIC DIAGNOSTIC AND ANALYTICAL APPLICATIONS

Title (de)
SELEKTIVE, KOVALENT BINDENDE VERBINDUNGEN MIT THERAPEUTISCHEN, DIAGNOSTISCHEN UND ANALYTISCHEN ANWENDUNGEN

Title (fr)
COMPOSES SELECTIFS A LIAISON COVALENTE AYANT DES APPLICATIONS THERAPEUTIQUES, DIAGNOSTIQUES ET ANALYTIQUES

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Application
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Abstract (en)
[origin: WO02083708A2] Novel compounds are provided having enhanced affinity for a desired, preselected, target substance (a small molecule; a macromolecule such as a protein, a carbohydrate, a nucleic acid, a cell, a viral particle, etc.) by modification with chemical groups that allow these substances to form strong bonds, such as irreversible covalent bonds, with the desired target substance. These qualities of tight, specific binding are reminiscent of antibody-like affinity; hence the new substances are termed COBALT, and acronym for <u>Co</u>-valent-<u>B</u>-inding <u>A</u>-ntibody-<u>L</u>-ike <u>Trap</u>. The present invention includes a process wherein a target species is chosen and then, by synthetic chemical procedures and modifications, novel substances (COBALTs) are obtained that exhibit selective and covalent binding to the preselected target species. The applications of the COBALTs include diagnostic, analytical, therapeutic and industrial applications.

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