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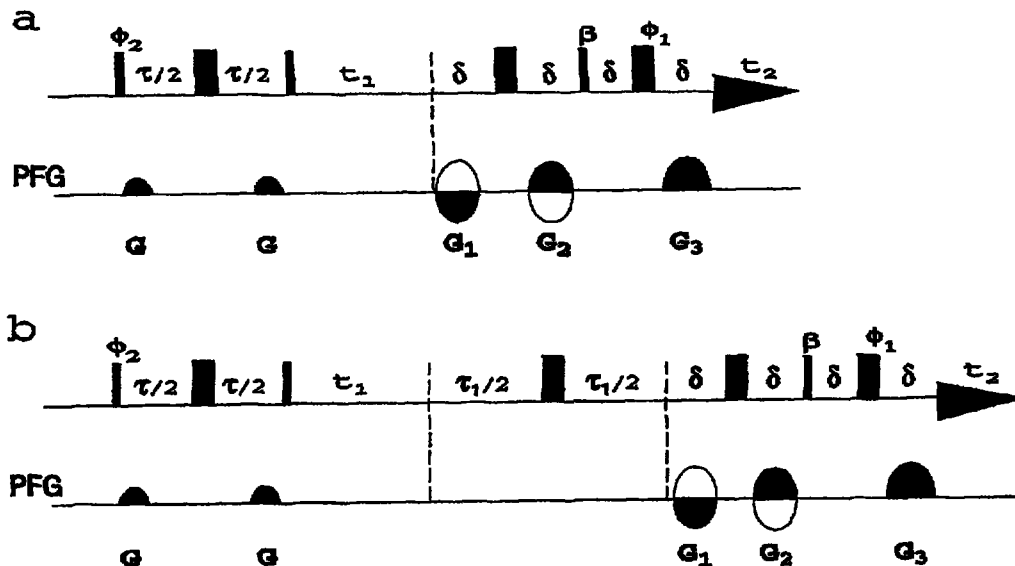
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(54) Title: USE OF DOUBLE-QUANTUM ¹H-NMR SPECTROSCOPY FOR THE IDENTIFICATION OF LIGANDS INTERACTING WITH TARGET BIOMOLECULES



(57) Abstract: The present invention provides a rapid and efficient screening procedure for identifying and providing chemical compounds that interact with target biomolecules, for instance a therapeutic target biomolecule such as a protein, wherein the said procedure comprises generating two dimensional proton (refocused or not) double-quantum or double-quantum relaxation weighted double quantum-spectra of a mixture of compounds with and without the target biomolecule, so as to detect any differences between the spectra that identify the presence of one or more chemical compounds that bind to the target biomolecule.