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[54] **HIGH MOLECULAR WEIGHT POLYMER-BASED PRODRUGS**

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[52] **U.S. Cl.** **514/449**; 514/283; 528/421; 546/48; 546/51; 549/510; 549/511

[58] **Field of Search** 549/510, 511; 546/48, 51; 514/283, 449; 528/421

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[57] **ABSTRACT**

Water-soluble prodrugs of the formula:

$$D-Y'-\overset{\overset{Y}{\|}}{C}-CH_2-M-R-Z \qquad (I)$$

wherein:

D is a biologically active nucleophile;

M is X or Q;

x is an electron withdrawing group;

Q is a moiety containing a free electron pair positioned five or six atoms from Y';

Y and Y' are oxygen or sulfur;

R is a polyalkylene oxide; and

Z is OH, C_{1-4} alkyl moieties or

$$D-Y_1-\overset{\overset{Y}{\|}}{C}-CH_2-M-;$$

are disclosed.

10 Claims, No Drawings