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(54) Title: GLYCOPOLYSIALYLATION OF NON-BLOOD COAGULATION PROTEINS

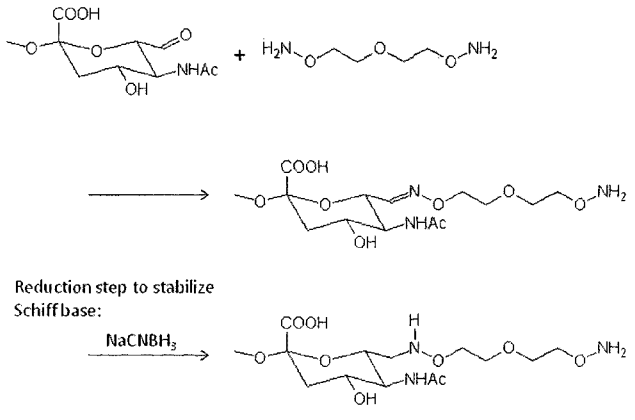


Fig.2

(57) Abstract: A water soluble polymer, in particular polysialic acid (PSA) or a modified PSA (mPSA), is conjugated to an oxidized carbohydrate moiety of a glycoprotein other than a blood coagulation protein or to a ganglioside or drug delivery system by contacting the oxidized carbohydrate moiety with the water soluble polymer, wherein said water soluble polymer contains an aminooxy group and an oxime linkage is formed between the oxidized carbohydrate moiety and the aminooxy group on the water soluble polymer or wherein said water soluble polymer contains a hydrazide group and a hydrazone linkage is formed between the oxidized carbohydrate moiety and the hydrazide group on the water soluble polymer. Conjugates of aminooxy- or hydrazide-water soluble polymer, such as PSA and mPSA, are thus obtained in which the PSA or mPSA is attached via a carbohydrate moiety.

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