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(54) Title: POLYMER DERIVATIVES

(57) Abstract: The invention provides water-soluble compounds that include a polymer and at least one terminal azide or acetylene moiety. Also provided are highly efficient methods for the selective modification of proteins with PEG derivatives, which involves the selective incorporation of non-genetically encoded amino acids, e.g., those amino acids containing an azide or acetylene moiety, into proteins in response to a selector codon and the subsequent modification of those amino acids with a suitably reactive PEG derivative.



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