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29. The method of claim 28 further comprising targeting the particle for delivery to a specific cell type by attaching to the surface of the particle a targeting molecule selected from the group consisting of compounds specifically reactive with a cell surface component, antibodies and antibody

fragments.

30. The method of claim 28 wherein the molecule is a substance detectable by x-ray, fluorescence, magnetic resonance imaging, ultrasound or radioactivity.

31. A method for delivering a substance to a patient comprising administering to the patient a particle having a diameter of between 50 nm and 1000 μm ,

wherein the particle is formed of or is coated with a multiblock copolymer, the multiblock copolymer comprises a multifunctional compound covalently bound to at least three polymer blocks, wherein the polymer blocks comprise one or more hydrophilic polymers and one or more hydrophobic bioerodible polymers.

32. The method of claim 31 wherein the substance to be delivered is a biologically active substance selected from the group consisting of peptides, proteins, carbohydrates, nucleic acids, lipids, polysaccharides, combinations thereof, synthetic inorganic molecules that cause a biological effect when administered to an animal and synthetic organic molecules that cause a biological effect when administered to an animal.

33. The method of claim 31 wherein the hydrophilic polymer is selected from the group consisting of polyalkylene glycols, polyvinyl alcohols, polypyrrolidones, poly (amino acids), oxidized cellulose and dextrans.

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34. The method of claim 33 wherein the polyalkylene glycol is selected from the group consisting of polyethylene glycol and polyoxyethylene/polyoxypropylene copolymers.

35. The method of claim 31 wherein the hydrophobic polymer is selected from the group consisting of polyphosphazenes, polyphosphate esters, polyanhydrides, polyhydroxybutyric acid, polyorthoesters, polycaprolactone, poly(α -hydroxy acids) and copolymers prepared from the monomers of these polymers.

36. The method of claim 31 wherein the multifunctional compound is selected from the group consisting of dextrans, pentaerythritol, glucaronic acid, tartaric acid, mucic acid, citric acid, benzene tricarboxylic acid, benzene tetracarboxylic acid and butane diglycidyl ether.

37. The method of claim 22 further comprising delivering a substance to a patient comprising administering the particle to the patient,

wherein the substance to be delivered is a biologically active substance selected from the group consisting of peptides, proteins, carbohydrates, nucleic acids, lipids, polysaccharides, combinations thereof, synthetic inorganic molecules that cause a biological effect when administered in vivo to an animal and synthetic organic molecules that cause a biological effect when administered in vivo to an animal.

38. The method of claim 37, wherein the molecule is selected from the group consisting of substances detectable by x-ray, fluorescence, ultrasound, magnetic resonance imaging and radioactivity.

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