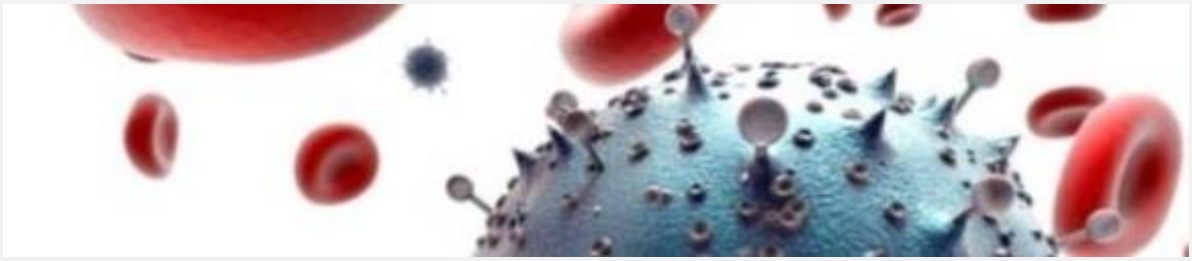
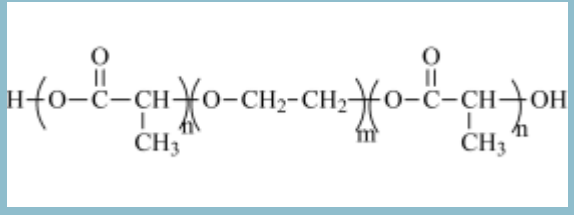
This message contains graphics. If you do not see the graphics, click here to view

POLYMERS FOR BIOMEDICAL APPLICATIONS

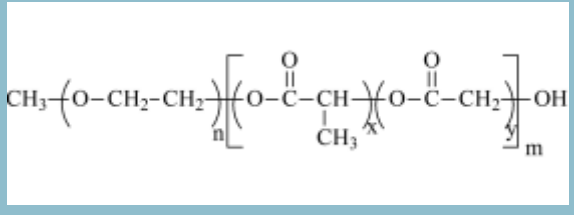


For several years, **SPECIFIC POLYMERS** is developping functional polymers for biomedical applications. Our research work mainly focuses on **biocompatible polymers** such as functional **polyethylene glycol (PEG), polylactic acid (PLA), poly(lactic-*co*-glycolic acid) (PLGA) or poly(glutamic acid)**. SPECIFIC POLYMERS is able to build-up biocompatible polymers with defined molecular weight and appropriate functionnality (Amines, Hydroxyl, Carboxylic acid, Phosphonic acid, Cyclocarbonate, Maleimide, etc.). SPECIFIC POLYMERS is also involved in the development of **functional thermosensitive polymers** and copolymers exhibiting tunable Low Critical Solution Temperature (LCST). Our polymers were shown to be highly interesting for various applications such as **drug delivery**, **nanomedicine, dental applications** or encapsulation of contrast agent in **medical imaging**.

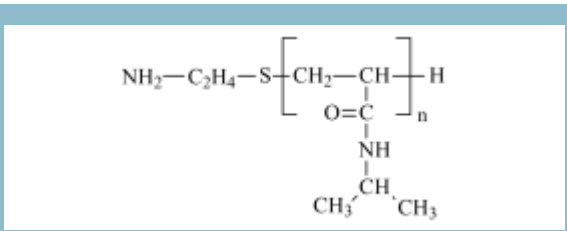
HIGHLIGHTED POLYMERS



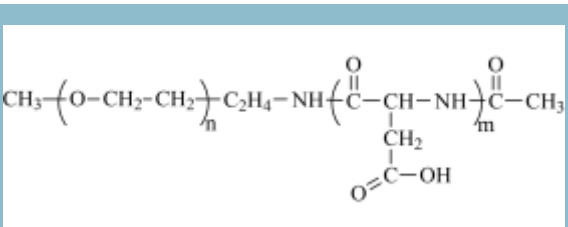
SP-1P2-0-002
PLA-block-PEG-block-PLA



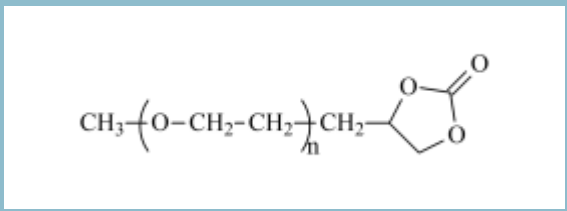
SP-1P-0-002
PEG-block-PLGA



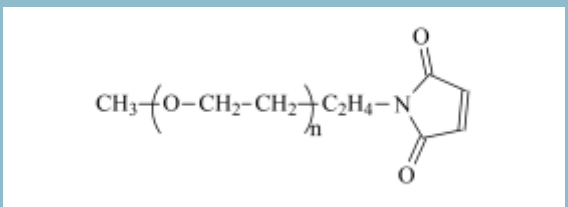
SP-3P-4-001
poly(NiPAM) Amine End Group



SP-1P-0-001
PEG-block-Poly(glutamic acid)



SP-1P-0-009
PEG Cyclocarbonate End Group



SP-1P-9-004
PEG Maleimide End Group

SPECIFIC POLYMERS has strong skills in building-blocks, monomers and polymers synthesis and provides **on-demand synthesis services** to its customers. Do not hesitate to contact us for more information.

Contact us

CATALOG

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DISCOVERY KITS

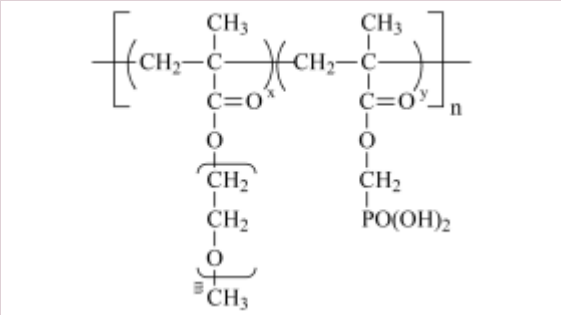
NEW ARTICLES IN PRESS

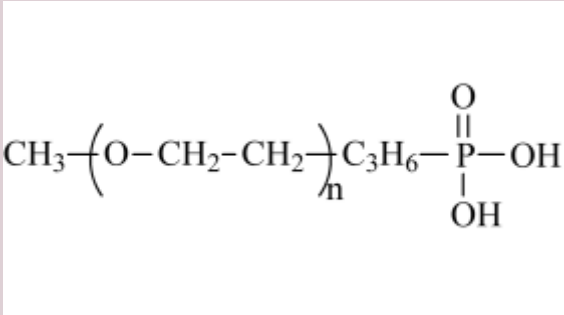
Delayed hepatic uptake of multi-phosphonic acid poly(ethylene glycol) coated iron oxide measured by real time magnetic resonance imaging

G. Ramniceau, et al., RSC Ad, 2016

Biomimetic Apatite-Based Functional Nanoparticles as Promising Newcomers in Nanomedicine: Overview of 10 Years of Initiatory Research

C. Drouet et al., J Gen Pra Med Dia 2015





SP-4P-1-011 is a copolymer obtained by free radical polymerization of PEG methacrylate and MAPC1 (SP-41-003). This copolymer was used in this study as coating agents for iron oxide nanocristals. Obtained Iron oxide coated particles are shown to have a blood circulation lifetime of 250 min which appeared of great interest in Magnetic Resonance Imaging.

SP-1P-1-001 is a poly(ethylene glycol) bearing a phosphonic acid end group. It was used here for the preparation of apatite colloidal suspensions. Biomimetic apatite based colloidal nanoparticles appeared to be very interesting in the field of nanomedicine, and especially for cancer cell diagnosis.

FIND ALL SCIENTIFIC ARTICLES RELATED TO SPECIFIC POLYMERS HERE

Publications

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