

Biotin Peg New York

Creative PEGWorks supplies a unique collection of biopolymers, including polyethylene glycol, PEG derivatives, PEGylation reagents, polysaccharides, PEGylated polymers, and fluorescent and biotinylated polymers.



Creative PEGWorks provides custom synthesis, PEGylation, and other contract R&D services. We also provide consulting services for drug delivery and formulation, protein modification, and nanoparticle functionalization.

Creative PEGWorks is a small biotechnology company located in North Carolina with a core business to supply advanced functional polymer products. We manufacture and distribute polyethylene glycol, polysaccharide, and polyamino acid derivatives and reagents for research at universities, federal laboratories, biotech and pharmaceutical companies. We also offer PEGylated, glycosylated, lipidated and dye-labeled biodegradable polymers and their activated derivatives that are reactive toward biologics, nanoparticles, surfaces, microspheres, self-assemblies, and small molecules. We specialize in PEGylation, polymer modification, particle surface functionalization, and custom synthesis of reactive oligomers and polymers with a broad range of molecular weights.

Creative PEGWorks is ready to help keep your projects on track with our high quality products and technical services.

PEG Products

Creative PEGWorks provide high quality PEG products of high reactivity and high purity. Creative PEGWorks' PEG products include structurally and functionally diversified derivatives of linear, branched, crosslinking, and multi-arm polyethylene glycol reagents with a broad range of molecular weight options from ~100 (oligomers) to 40,000 Dalton. Our polydispersed PEG has very low polydispersity and PDI (polydispersity index = M_w/M_n) values. We also offer monodisperse PEG that are pure molecules with a discrete molecular weight and formula, and they are single-length pure PEGs. PEG reagents with functional groups and molecular weight not listed may be offered through custom synthesis.

Polysaccharides

Natural polysaccharides and carbohydrates are widely used in drug delivery, tissue engineering, regenerative medicine, pharmaceutical and cosmetic research and product development. Creative PEGWorks provides customers with selections of functionalized polysaccharides, including hyaluronic acid, heparin, chondroitin sulfate, chitosan, dextran, alginate, cellulose and xylan. We also provide custom synthesis for polysaccharide derivatives not listed. Our polysaccharide products are for laboratory research testing only.

Creative PEGWorks provide high quality block or graft copolymers made of polyethylene glycol (PEG) or polyethylene oxide (PEO) and biodegradable polymers, natural polymers, or biopolymers. PEGylated biopolymers include carbohydrates, hyaluronic acid, polyamino acid and others. PEGylated biodegradable polymers can be used for drug delivery with controlled release, microencapsulation, drug solubility enhancement and other biomedical applications including implants, tissue scaffolding, films and others. Biodegradable polyesters including those made of caprolactones have been approved for clinical uses. We provide diblock (A-B) and triblock (A-B-A) copolymers of PEG with PLA (polylactic acid or polylactide), PLGA (polylactic acid-co-glycolic acid or polylactide-co-glycolide), and PCL (polycaprolactone). We also offer custom synthesis services for PEGylated copolymers with other biodegradable blocks of various molecular weights, and with reactive functional groups.

Polyamino Acids

Creative PEGWorks provide high quality polyamino acid (PAA) products including poly(L-glutamic acid) and poly(L-lysine) products with high purity ($\geq 99.5\%$). PLGA and PLL are synthetic, non-cytotoxic, biodegradable, and highly water soluble. Our PLGA and PLL reagents are metal-free, and have very narrow molecular weight distribution. We also provide custom synthesis for fluorescent dye or biotin-labeled PLGA and PLL reagents as well as functionalized PLGA and PLL derivatives. Polyamino acid materials can be used in drug delivery, hydrogels, particle surface coating, gene therapy, microencapsulation, drug solubility enhancement and others. Polyamino acids have properties that mimic proteins, making them suitable for drug delivery of proteins and nucleic acids.

PEGylation Reagents

Creative PEGWorks provide PEG derivatives of high reactivity and high purity. Creative PEGWorks' PEGylation reagents include structurally and functionally diversified derivatives of linear, branched, crosslinking, and multi-arm polyethylene glycol with a broad range of molecular weight options from ~ 100 (oligomers) to 40,000 Dalton. Our pegylation reagents include both monodisperse and polydisperse PEG reagents. Polydispersed PEGs have very low PDI (polydispersity index) and the composition and reactivity are highly reproducible from batch to batch. Monodispersed PEGs are pure molecules with a discrete molecular weight and they are single-length pure PEGs.

Please click PEG Products on the left to explore the complete list of our PEG Derivative Products that are organized by Chemical Functionality, Reactivity, and Structures.

Creative PEGWorks provide cost-effective custom synthesis and technical service with fast turnaround time and high quality. Final products and intermediates are adequately purified and characterized. Our knowledge, skill and ability will keep your projects on track and provide enhanced value proposition.

Custom synthesis & service

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Custom synthesis of functional polymers

We can custom design and synthesize functional polymer derivatives including polysaccharide, polyamino acid, polyethylene glycol, polyester, and glycosylated and PEGylated biodegradable polymers.

Custom synthesis of small molecules

We can design and synthesize novel organic molecules, API intermediates, stereoisomers, specialty amino acid derivatives, and oligomers.

Pegylation literature

Reactive PEG reagents are used to derivatize, functionalize, conjugate or crosslink a variety of substrate molecules, particles and surfaces. Listed below are selected literature examples of successful PEGylation using Creative PEGWorks' PEG products.

Custom synthesis of monodispersed PEG

We specialize in synthesis of monodispersed PEG derivatives with a variety of functional groups used in PEGylation chemistry. We provide a special class of PEG reagents: amphiphilic (surfactant-like) short PEG.

Labeling service

We can provide labeling service with commercially available fluorescent dyes (visible and NIR), biotin and other optical and biological probes for small molecules, polymers (peptide, biologics, polysaccharide, PEG and block copolymers), nanoparticles, microspheres, and self-assemblies.

For more information please visit
<http://www.creativepegworks.com>