

Stable Isotope
Applications of Stable Isotopes are prevalent today in the fields of medicine, chemistry, biology, physics, agriculture, environmental and drug testing, industry and other basic sciences. The potential applications are virtually limitless. Campro Scientific offers a full range of high quality stable isotope labeled compounds.

Agricultural Research	
• Ammonium Chloride- ¹⁵ N	• Potassium Nitrate- ¹⁵ N
• Ammonium Nitrate- ¹⁵ N	• Urea- ¹⁵ N ₂
• Ammonium Sulfate- ¹⁵ N	• ¹³ C Labeled Plant Materials
• Calcium Nitrate- ¹⁵ N	

Biomolecular NMR Products	
• Algal Products- ¹³ C, ¹⁵ N	• Glucose- ¹³ C
• Alpha-Keto Acids- ¹³ C	• Growth Media / ISOGRO™ - ¹³ C, ¹⁵ N
• Amino Acids- ¹³ C, ¹⁵ N	• Nucleotides- ¹³ C, ¹⁵ N
• Ammonium Salts- ¹⁵ N	

Cyclotron Target Materials <i>For the Production of PET Radioisotopes</i>	
• Water- ¹⁸ O	• Nitrogen- ¹⁵ N ₂ / Oxygen Gas-mix (ratio 39/1)
• Oxygen- ¹⁸ O ₂	• Carbon- ¹³ C (amorphous)

<i>For the Production of Radioisotopes</i>	
• Xenon-124 as precursor for Iodine-123 and Iodine-125	
• Thallium-203 as precursor for Thallium-201	
• Zinc-68 as precursor for Gallium-67	
• Cadmium-112 as precursor for Indium-111	
• Iridium-191 as precursor for Iridium-192	

<i>For Experimental and Nutritional Research</i>	
• Metal Isotopes	

Gases	
• Deuterium-D ₂	• Ethylene- ¹³ C ₂
• Carbon Monoxide- ¹³ C	• Nitrogen- ¹⁵ N ₂
• Carbon Dioxide- ¹³ C	• Oxygen- ¹⁸ O ₂

Noble Gases	
• Helium-3	• Krypton-78-80-82-83-84-86
• Neon-20-21-22	• Xenon-124-126-128-129-131-132-134-136
• Argon-36-38-40	

Metal Isotopes	
• Calcium-40-42-43-44-46-48	• Thallium-203-205
• Lutetium-175-176	• Zinc-64-66-67-68-70
• Sulfur-32-33-34-36	

MRI & MRS Research Products	
• <i>Please inquire: info@campro.eu</i>	

Nutrition & Metabolic Studies	
• <i>Please inquire: info@campro.eu</i>	

Research Products	
• Alkanes- ¹³ C,d	• Polymers- ¹³ C,d
• Amino Acids- ¹³ C, ¹⁵ N	• RNA / DNA Products- ¹³ C, ¹⁵ N
• Carbohydrates- ¹³ C,d	• Steroids- ¹³ C
• Fatty Acids / Lipids ¹³ C,d	• Vitamines- ¹³ C

Standards	
• DEA Exempt Drug Standards-d	
• Metabolic Research Standards- ¹³ C,d	
• Environmental Testing Standards- ¹³ C,d	

Protein Labeling Services	
• <i>Please inquire: info@campro.eu</i>	

Breath Test Substrates
A ¹³C Breath Test consists of the administration of a ¹³C labeled substrate to a patient that is metabolized by a specific enzyme system resulting in ¹³CO₂ as the end product. To monitor the enzyme response, ¹³C enrichment is measured in breath CO₂.
The total procedure of ¹³C breath testing includes definition of the preparation of the patient before the test, administration of the ¹³C labeled substrate, collection of the breath samples, measurement of ¹³C enrichment in breath CO₂ and calculation of the end result.

Stomach	
• Helicobacter pylori Infection	• ¹³ C-Urea
• Gastric Emptying of Solids	• ¹³ C-Octanoic Acid
• Gastric Emptying of Liquids	• ¹³ C-Sodium Acetate

Pancreas	
• Lipase Activity	• ¹³ C-Mixed Triglyceride
• Exocrine Pancreatic Insufficiency	• ¹³ C-Cholesteryl Octanoate

Liver	
• Microsomal (cirrhosis)	• ¹³ C-Aminopyrine
• Microsomal	• ¹³ C-Methacetin
• Mitochondrial	• ¹³ C-Ketoisocaproic Acid
• Cytosolic	• ¹³ C-Galactose

Intestine	
• Brush Border Enzymes	• ¹³ C-Lactose
• Orocecal Transit Time	• ¹³ C-Lactosyl Ureide
• Bacterial Overgrowth	• ¹³ C-Xylose

Chemicals Standards
Chemical standards are essential in calibrating instruments and in assuring the long term integrity of quality assurance programs.
Campro Scientific offers the analytical community chemical standards in native form (unlabeled) as well as in stable isotope labeled form (d-¹³C).

Drug Standards	
• DEA Exempt Drug Standards (Deuterium Labeled)	

Environmental Standards	
• ¹³ C-Labeled Dioxins & Furans	• EPA Methods-1613-8280-8290-513-1668-23
• ¹³ C-Labeled PCBs & PBBs	• EN Methods-1948
• ¹³ C-Labeled PBDEs & PBBEs	• Multilevel Calibration sets for PCDD/PCDF analysis
• Certified Reference Materials	• Naphthalenes
• ¹³ C-PCDD and ¹³ C-PCDF congeners	• PBDD, PBDF and mixed Br/Cl congeners
• Reference Matrices	• Solutions for EPA Method 1668 Revision A

Inorganic Standards	
• EPA Method 200-6010	• ICP/MS EPA Method Standards
• ICP/MS Multi Element Standards	

Metabolic Standards	
• Deuterated Fatty Acids	• Natural Fatty Acids
• Deuterated Bile Acids	• Natural Bile Acids
• Deuterated Acylcarnitines	• Natural Acylcarnitines
• ¹³ C or Deuterium Labeled Acylglycines	• Natural Acylglycines
• Various Deuterium Labeled Compounds	• Various Natural Compounds

Organic Standards	
• PCBs	• Pesticides
• PAHs	• Explosives
• Flame Retardants	• EPA Methods 500-600-8000

Radiochemicals
Radiochemicals are commonly used in research. Biochemicals labeled with various radionuclides will function identically or similarly to the naturally occurring material.
Radioactive isotopes of familiar elements such as carbon can serve as tracers because they are chemically very similar to the non-radioactive isotopes, so most chemical, biological, and ecological processes treat them in an identical way. They can therefore be used as radiotracers, enabling researchers to follow that biochemical through a pathway or reaction of interest.
Campro Scientific offers the scientific community a full range of top quality radiochemicals. The radiochemical and chemical purity of our products is assured to be 97% - 99%.

Radiochemical Products	
• Amino Acids	• Mevalonolactones & Isoprenoids
• Autoradiography Standards	• Neurochemical Ligands
• Brain Mapping & Blood Flow Tracers	• Nucleosides & Nucleotides
• Carbohydrates	• Peptides
• Ceramides, Sphingolipids, Phospholipids	• Pesticides
• Coenzyme A products	• Plant Materials
• Drugs for AIDS and Cancer Research	• Radionuclides
• Fatty Acids	• Steroids
• Inositides	

Nuclear Medicine Supplies & Accessories	
• PET Accessories	• Sources
• Shieldings	

Tritium Labeling Services	
• <i>Please inquire: info@campro.eu</i>	

Sterility & Pyrogenicity testing

- Licensing Requirements for Radioactive Materials
Compliance with the terms of state, federal and institutional regulations for the procurement of radioactive materials is the responsibility of the user. Purchasers of radiolabeled compounds should familiarize themselves with all applicable regulations. To comply with current regulatory guidelines, Campro Scientific must have a customer license or written certification stating that the customer is authorized to possess the type and quantity of radioactive material being ordered. This information must be provided before any order is shipped.
- We have several S&P tested products and we can test products for sterility and pyrogenicity. Testing is done in bulk form, before subdivision packaging. This bulk test does not guarantee that the subdivision or repackaged product is sterile and pyrogen free when it is received or used by the customer. It does not imply suitability for any particular purpose. If the product must be sterile and pyrogen free for the intended application, we recommend that the product is tested prior to actual use. Upon request we will ultrafilter products that are to be tested for sterility and pyrogenicity for an additional fee.

NMR
NMR is an excellent tool to study biomolecular structures and protein dynamics. Campro Scientific offers NMR Spectroscopists a wide range of NMR tubes and accessories.

NMR Tubes	
High Precision Thin Wall NMR Sample Tubes for 360-900 MHz NMR Ultra Thin Wall NMR Sample Tubes. Advanced and Symmetrical NMR Tubes matched with:	
• Chloroform-d	• DMSO-d ₆
• Methanol-d ₄	• Deuterium Oxide
• Alumina Tubes for ²⁹ Si and ¹¹ B NMR	

MAS Rotors & Caps	
• Zirconium Oxide MAS Rotors from Rototec are made for your Bruker, Doty or Varian MAS Probe. In sizes of 4-5-7 mm OD with a variety of End Caps.	

NMR Solvents	
• Acetic-d ₃ acid-d	• Dimethyl sulfoxide-d ₆
• Acetone-d ₆	• Methyl-d ₃ alcohol-d
• Acetonitrile-d ₃	• Pyridine-d ₅
• Benzene-d ₆	• Tetrahydrofuran-d ₆
• Chloroform-d	• Toluene-d ₈
• Deuterium Oxide	• Trifluoroacetic acid-d
• Dichloromethane-d ₂	

Research Chemicals

The specialty chemicals industry, as well as the pharmaceutical industry are under pressure to achieve higher innovation rates, while simultaneously conforming to increasing regulatory pressures and holding down R&D costs.

Research Chemical Products

• Amino Acids & Derivatives	• Indole Derivatives
• Anthranilic Acid Derivatives	• Isatoic Derivatives
• Aryl Piperidine Derivatives	• Metabolites
• Biphenyl Phenyl Acids for CombiChem	• Mutagenesis Research Chemicals
• Boronic Acid	• Neurochemicals
• Building Blocks: Amine-Pyrrolidines	• Nicotine Derivatives
• Bulk Fine Chemicals	• Nitric Oxide Reagents
• Carbohydrates & Derivatives	• Novel Amines
• Chiral Intermediates	• Oligosaccharides
• Chromatography Media	• Phenyl Acetylene
• Commercial Drug Intermediates	• Protected Amines
• Detergents	• Retinoids
• Fluorescent Labels & Indicators	• Special Reagents
• Glycerols, Fatty Acid Derivatives & Lipids	• Spin Labeling Compounds
• Heterocycle Intermediates	• Sulfur & Selenium Compounds
• Hydantoins & Derivatives	

GMP Facilities

- Please inquire: info@campro.eu

Custom Labeling Synthesis

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Campro Scientific is a research-oriented company specialized in supporting the needs of the scientific research community with an abundant variety of high quality radioisotopes, stable isotopes, biochemicals & research chemicals, chemical standards and NMR products. The company was founded in 1981 and has shown a steady growth in a strongly developing market field ever since. We have been serving some of the most prestigious universities, research institutes and laboratories since 1981.

The basic philosophy of our company is that the customer is the most important person in our business and that all activities should be directed to achieve the highest possible standard of customer service.

We represent a number of leading manufacturers and strive to provide a comprehensive range of the finest products for use in the fields of chemistry, medicine, nutrition, pharmacy, biology, agriculture, physics and environmental and drug testing research.

We trust that you will find our product guide helpful and sincerely hope that we may be of service to you in the near future.

As we make these important products available to the scientific world, our goals in working with you are to provide:

- Quality products
- Efficient distribution
- Excellent communication
- Dependable service.

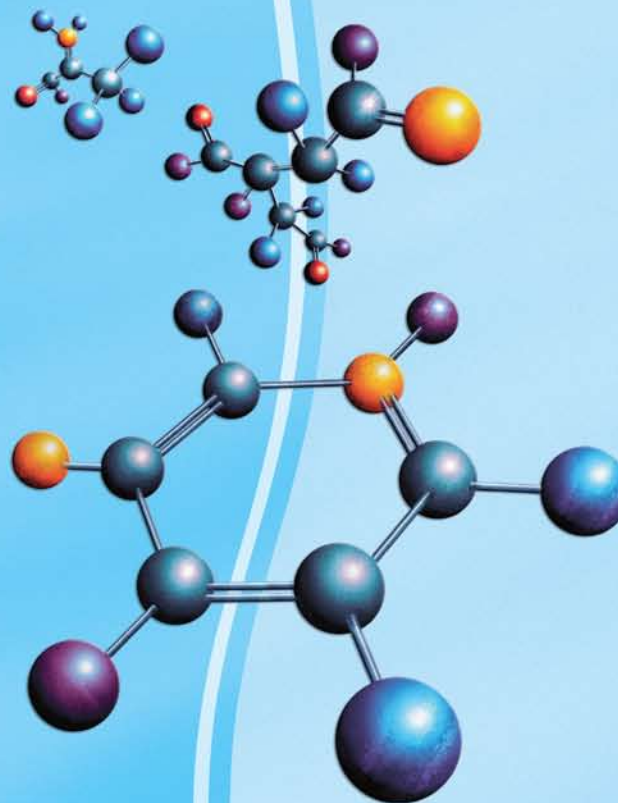
You will find the highly educated staff at Campro's offices able to help you with any questions you may have regarding a specific product. Feel free to give us a call.

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STABLE ISOTOPES & Research Chemicals



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Chemical Standards

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