



# More than molecules!



**researchchem**  
more than molecules!

# Company profile

**ReseaChem GmbH** was founded in 1996 as a spin-off company of the University of Applied Sciences Berne located in Burgdorf, Switzerland.

ReseaChem offers a broad range of services in synthesis of stable labeled or unlabeled compounds for R&D purposes, isolation of natural products or degradation products as well as structure elucidation of unknown products. Unique is the offered 24-hour-NMR-service and a broad range of analytical service such as LCMS und GCMS-analytics, cannabinoid analytics as well as psychoactive drug screening. Furthermore, we offer a wide range of over 400 company-owned reference substances.

We are supplying the best solutions for our clients in the pharmaceutical, chemical and biotech industry. Besides our scientific services ReseaChem is the official distributor for **Applikon Biotechnology** as well as **Cambridge Isotope Laboratories INC (CIL)** in Switzerland.

ReseaChem's strengths are the employees. They have a wide range of research experience in organic and analytical chemistry as well as biotechnology.

ReseaChem offers you more than molecules!

## Analytical services

**ReseaChem** provides a broad range of analytical services such as a unique 24-hour-NMR-service for product quality control, compound purity and structure elucidation of small molecules. In addition, we provide strong expertise in the field of qualitative and quantitative psychoactive drug screening and quantification of cannabinoids in pharmaceutical as well as plant and food products. Our analytical service includes:

- NMR-analysis within 24h ( $^1\text{H}$ ,  $^{13}\text{C}$ ,  $^{13}\text{C}$ -DEPT,  $^{13}\text{C}$ -APT,  $^{11}\text{B}$ ,  $^{19}\text{F}$  and  $^{31}\text{P}$ -spectra)
- 2D-NMR spectroscopic investigations (e.g. COSY, HSQC, HMBC, NOESY)
- Quantitative analysis by NMR ( $^1\text{H}$  &  $^{31}\text{P}$ )
- Mass spectroscopy investigations by GC-MS and LC-MS
- HPLC-UV qualifications and quantifications

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## Custom synthesis services

**ReseaChem** expands your chemistry capabilities offering complete solutions in custom synthesis of small organic molecules in the area of reference standards, building blocks for drug discovery, natural products, metabolites, stable isotopes, labelled compounds and DNA / RNA building blocks.

We provide multistep synthesis from milligram up to gram scale in our state-of-the-art laboratories. Our rich experience in synthetic organic chemistry, including designing of synthetic pathways, literature research, protecting group chemistry and in-house analytics is your benefit.

All of our high quality products are delivered with a certificate of analysis. Our qualified chemists are pleased to assist you in your custom synthesis project.

Furthermore, ReseaChem offers a wide range of over 400 company-owned reference substances in the field of:

- Psychoactive drug standards
- DNA/RNA building blocks
- Pesticide metabolites
- $^2\text{H}$ ,  $^{13}\text{C}$  or  $^{15}\text{N}$  labelled compounds
- Plant ingredients
- Antioxidants
- Glucuronides
- Food contaminants

## From isolation to identification and reference material preparation

**ReseaChem** offers isolation and purification with percentages up to reference material standard purity. Furthermore, isolated compounds can be analyzed and characterized by ReseaChem in order to make a structural elucidation. We provide a broad range of isolations from low milligrams up to grams by using techniques like preparative HPLC and MPLC in the field of:

- Plant ingredients, e.g. rice, cannabis, tea
- Impurities, e.g. pharmaceutical decomposition products or synthetic byproducts
- Purification of complex organic mixtures

## Contract Research: More than molecules!

If no literature for a desired compound is available, we will investigate methods of analysis, isolation, preparation and route optimization on a time/cost basis. We can also provide you with validations of our analytical methods if intended.

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