Alberta Research Chemicals Inc.

Where Our Expertise Meets Your Outsourcing Needs

Chemical Biology Building Blocks

Our featured building blocks

Carbohydrates:

- Monosaccharides
- Oligosaccharides
- Amino sugars
- Azido sugars
- Orthogonally protected sugars
- Glycoaminoacids

Peptides:

- Di and tri peptide blocks
- Oligo peptides
- With unnatural amino acids
- Glyco-peptides

Lipids:

- Saturated fatty acids
- Unsaturated fatty acids
- Lipo-peptides
- Glycolipids

In addition, ARCI offers custom synthesis of products tailored to your needs. For more information, please contact:

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Chemical Biology research uses the tools of chemistry and synthesis to understand biology and pathogenesis at the molecular level and hence addresses fundamentally important questions in biology, medicine, and drug discovery. Our chemical biology product line features a market leading range of innovative synthetic intermediates/building blocks for the synthesis of biomolecules aimed for the development of vaccines and drugs for central nervous system disorders, cancers, and infectious diseases. ARCI offers a broad range of protected and unprotected building blocks in the areas of carbohydrates, peptides and lipids for your research. ARCI is also capable of producing life science products of your interest in quantities of your choice.

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Our selected publications:

1. D. Yalamati et al., Synthetic Lipid A Analogs and Uses Thereof, **WO 01/36433**
2. Jiang Z-H. et al., Immunostimulatory, Covalently Lipidated Oligonucleotides, **US 2006/0189550**
3. Koganty et al., Synthetic Glyco-Lipo-Peptides as Vaccines, **US 2006/0069238**
4. Jiang Z-H. et al., Lipid A and Other Carbohydrate Ligand Analogs, **US 2006/0040891**
5. S. Gandhi et al., Glycosylceramide Analogues, **US 2006/0116331**
6. R. R. Koganty, D. Yalamati, "Glycopeptide based cancer vaccines…." ACS Symposium Series. Rene Roy (Ed.), **ACS Publications (2008)**.
7. S. Gandhi and R. R. Koganty, "Stereodirected process for synthesis of α-N-acetyl galactosaminides", **US 08/208,268**