

# Insulin-like Peptides are Now Available for Large-scale Research

The history of the chemical synthesis of insulin, relaxins, and insulin-like peptides goes back around 60 years. With the introduction of the solid-phase method and the advent of new reagents and protecting groups into the practice of peptide synthesis more than 40 years ago, the possibilities for the synthesis of this group of peptides have significantly expanded. Based on these achievements, we have developed a new efficient scheme for the synthesis of insulin-like peptides. Our approach allows us to stably obtain natural insulin-like peptides and their analogs, including such difficult ones for chemical synthesis as insulin-like peptide 5 (see pictures below). When scaling the synthesis, it is possible to obtain up to 10 g of the separate insulin under the conditions of an ordinary peptide laboratory. The stability of our synthesis scheme allows us to reliably obtain various analogues of insulin-like peptides in small quantities (1-5 mg). We hope that our capabilities in the synthesis of insulin-like peptides will be of interest to a wide range of researchers and pharmaceutical companies. A complete list of peptides and other information can be found on our website ([www.synpel.cz](http://www.synpel.cz)).

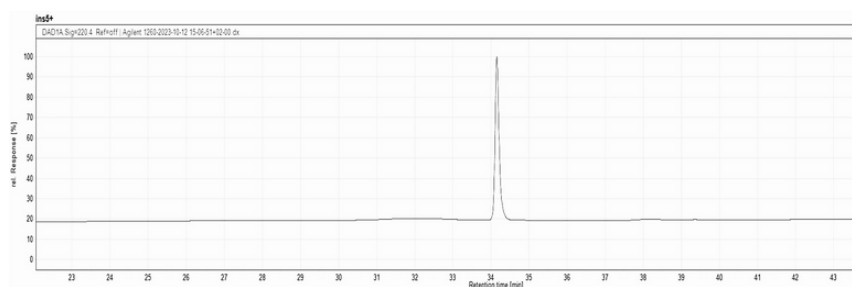


Figure 1. Analytical RP-HPLC profile of INSL5.

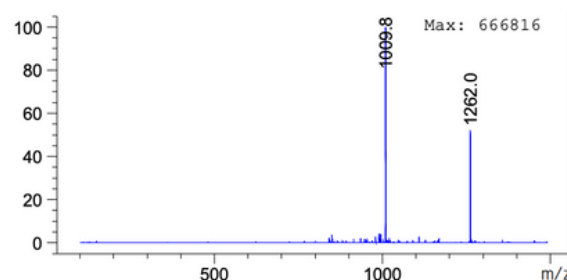


Figure 2. LC-MS of INSL5.

Calculated  $m/z = 5044.0$

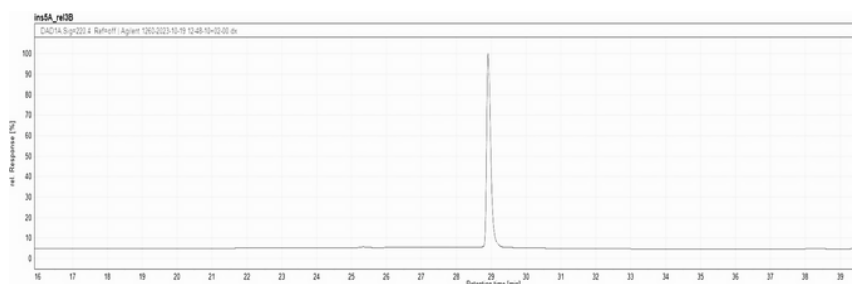


Figure 3. Analytical RP-HPLC profile of INSL5A-REL3B peptide.

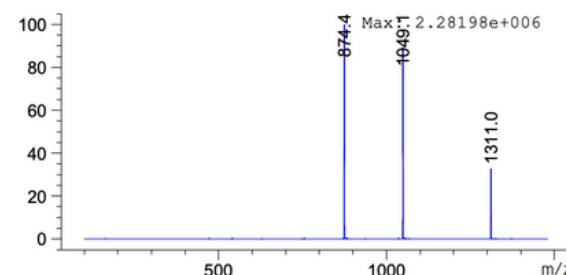


Figure 4. LC-MS of INSL5A-

REL3B. Calculated  $m/z = 5240.5$