

## Synthetic Insulin

We have developed an efficient scheme for the synthesis of insulin. Our approach allows us to obtain natural insulin identical to the recombinant insulin (Merck) (see pictures below).

The stability of our synthesis scheme allows us to reliably obtain analogues of insulin (amino acid substitution/side chain modification) in small quantities (1-100 mg) sufficient for screening research needs.

A complete list of insulin-like peptides and other information can be found on our website ([www.synpel.cz](http://www.synpel.cz)). You can find up-to-date information on our [Synpel Chemical](#) LinkedIn. We believe that our expertise in insulin-like peptides synthesis will be of interest to a wide range of researchers and pharmaceutical companies.

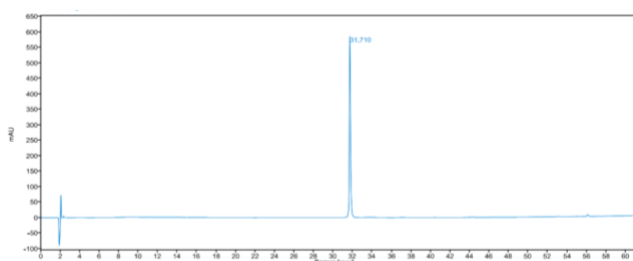


Figure 1. Analytical RP-HPLC profile of synthetic insulin.

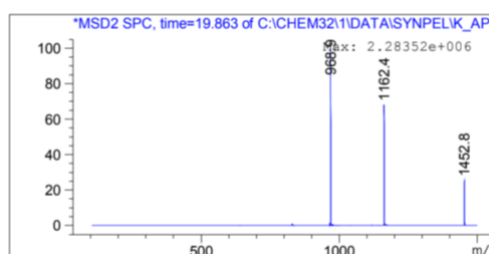


Figure 2. LC-MS of synthetic insulin.  
Calculated  $m/z = 5807.2$

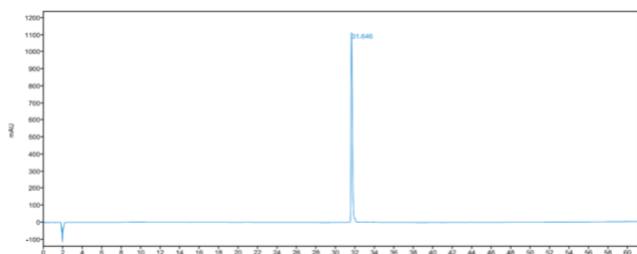


Figure 3. Analytical RP-HPLC profile of recombinant insulin (Merck).

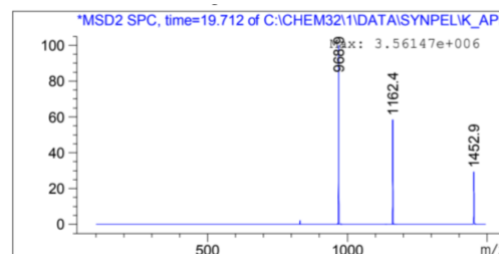


Figure 4. LC-MS of insulin (Merck).  
Calculated  $m/z = 5807.2$

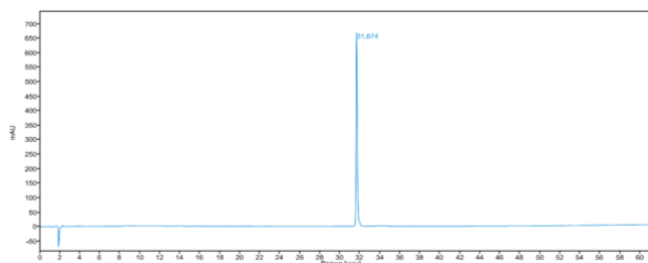


Figure 5. Analytical RP-HPLC profile mixture of synthetic and recombinant insulin.

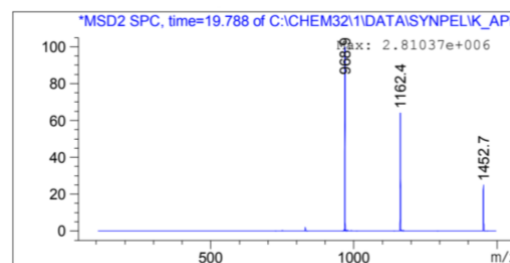


Figure 6. LC-MS mixture of synthetic and recombinant insulin. Calculated  $m/z = 5807.2$