

Separation of rhGH Tryptic Digest Fragments on a 1-mm ID Column

Application

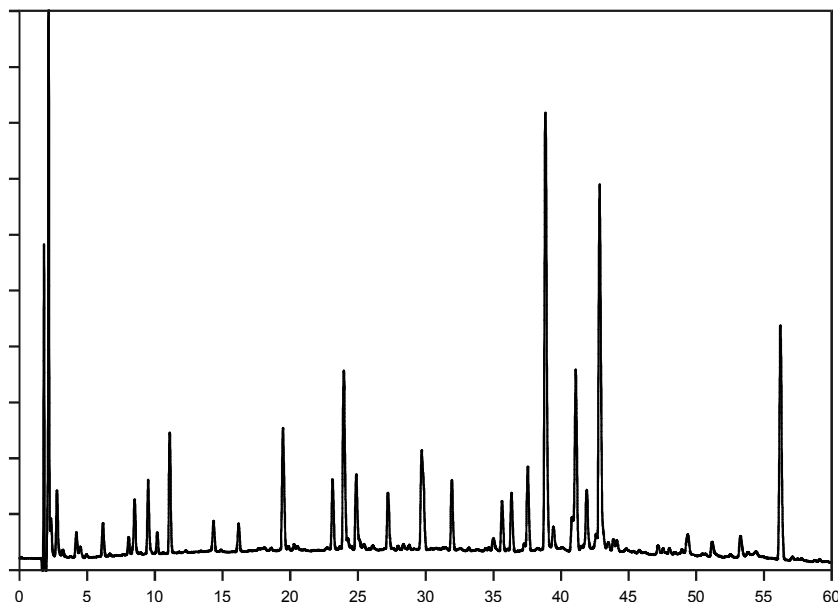
Biochemical

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Separation of the peptide fragments generated by the treatment of recombinant human growth hormone with trypsin. Due to the small amount of sample usually available from these digests, it is often desirable to achieve more-sensitive detection. This sample was resolved by reversed-phase HPLC using a 1mm ID x 150 mm column packed with Agilent ZORBAX 300SB-C18.

Highlights

- Separation of protein digest products using a microbore (1 mm ID) column occurs with the same selectivity and efficiency as narrow-bore (2.1 mm ID) and standard-bore (4.6 mm ID) columns.
- Separations on microbore columns show the high sensitivity expected with small ID columns (2µg).
- Small ID columns permit highly sensitive detection of digest products, while minimizing sample consumption.



Conditions:
LC: HP1090 with LC Packings Accurate Flow Splitter
Column: ZORBAX 300SB-C18, 5µm, 1 mm x 150 mm
Mobile Phase: 2-60% B in 60 min.
A- 0.1% TFA in H₂O; B- 0.075% TFA in 80% ACN / 20% H₂O
UV: 215 nm
Flow: 50 µL / min.; 50°C
Inj. Vol.: 2 µL (1 µg / µL)



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