

Application Report 281

Separation of a 5 Peptide Mixture Using Ascentis™ C18

This application demonstrates the suitability of Ascentis C18 for the efficient separation of peptides with varying hydrophobicities.

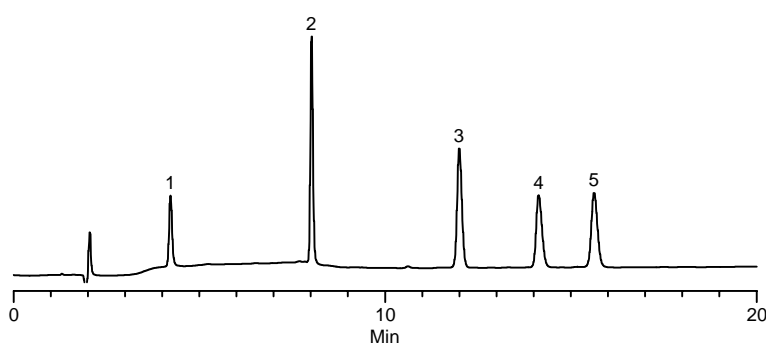
Key Words

Ascentis C18, 581324-U, peptides, angiotensin II, methionine enkephalin, leucine enkephalin, H2016

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Acquisition System: Hitachi LC

Notebook Reference: 1550-38



G003042

Conditions

column: Ascentis C18, 15 cm x 4.6 mm I.D., 5 µm particles (581324-U)
mobile phase A: 0.1% TFA in water
mobile phase B: 0.1% TFA in acetonitrile
flow rate: 1.0 mL/min.
temp.: 30 °C
det.: UV at 220 nm
injection: 5 µL
sample: as indicated in mobile phase A
gradient:

Min	%B
0	9
5	21
20	27

Peak IDs

1. Gly-Phe (62.5 µg/mL)
2. Val-Tyr-Val (250 µg/mL)
3. Met Enkephalin (250 µg/mL)
4. Angiotensin II (250 µg/mL)
5. Leu-Enkephalin (250 µg/mL)

Structures

Methionine Enkephalin
YGGFM

Leucine Enkephalin
YGGFL

Angiotensin II
RVYIHPF

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