

Pravastatin in Cell Lysate Samples by LC-MS/MS

ACE[®]
Ultra-inert
UHPLC & HPLC Columns

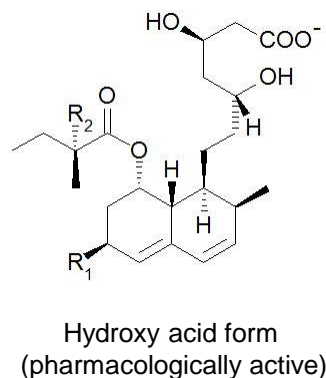
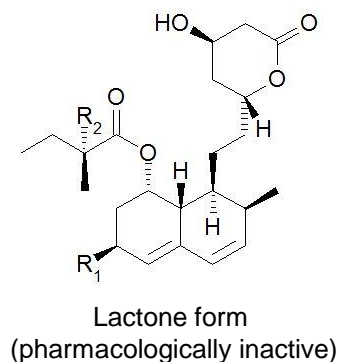
Application #AN4350

Conditions

Column: ACE Excel 3 SuperC18
Dimensions: 100 x 3.0 mm
Part Number: EXL-1111-1003U
Mobile Phase: A: 5 mM ammonium acetate pH 4.5 in H₂O
B: MeCN

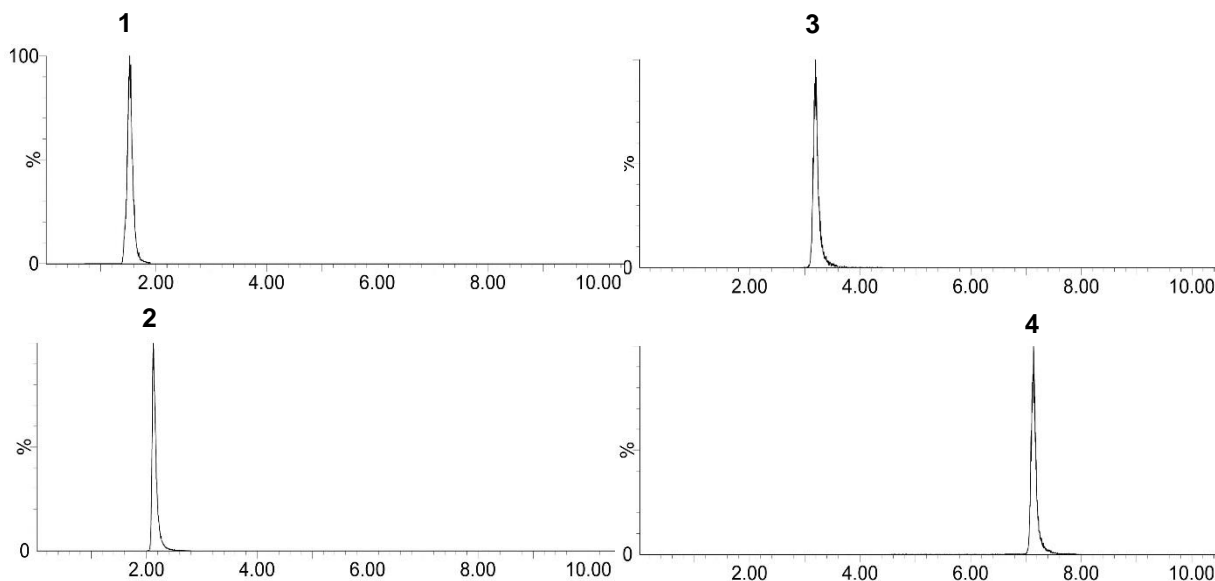
Time (mins)	%B
0	65
4	65
5	75
7	75
8	65

Flow Rate: 0.3 mL/min
Temperature: 40 °C
Detection: Quattro Ultima triple quad MS
ESI MRM mode: +ve (lactones)
-ve (hydroxy acids)
Source temperature: 125 °C
Desolvation temperature: 350 °C



Pravastatin: R₁ = OH, R₂ = H
Lovastatin (IS): R₁ = CH₃, R₂ = H

Peak	Analyte	Precursor ion	MRM transition (m/z)	LLOQ (ng/mL)
1	Pravastatin hydroxy acid	[M-H] ⁻	423.23 → 321.37	2.23
2	Pravastatin lactone	[M+H] ⁺	407.46 → 183.22	2.03
3	Lovastatin hydroxy acid (IS)	[M-H] ⁻	421.08 → 319.54	n/a
4	Lovastatin lactone (IS)	[M+Na] ⁺	427.15 → 325.36	n/a



Taha DA, de Moor CH, Barrett DA, Lee JB, Gandhi RD, Hoo CW, Gershkovich P, (2016) The role of acid-base imbalance in statin-induced myotoxicity. Translational Research, The Journal of Laboratory and Clinical Medicine. <http://dx.doi.org/10.1016/j.trsl.2016.03.015>

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