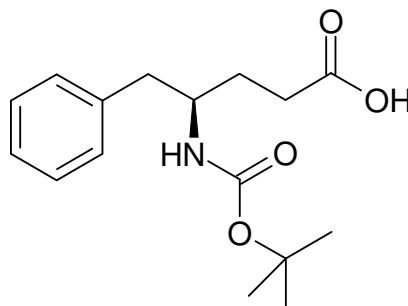


Certificate of Analysis

Chemical Name: (4R)-4-(tert-butoxycarbonylamino)-5-phenyl-pentanoic acid

Chemical Structure:



Formula: C₁₆H₂₃NO₄

M.W. [g/mol]: 293.37

Product Work Name	-
ChiroBlock Product Number	-
Version Control Number of Manufacturing Procedure	-
ChiroBlock Lot No.	UDY 4718 w1 III
Date of Lot Manufacturing	01.04.2019
Date of Lot Testing	02.04.2019
Date of Lot Re-testing	02.04.2021

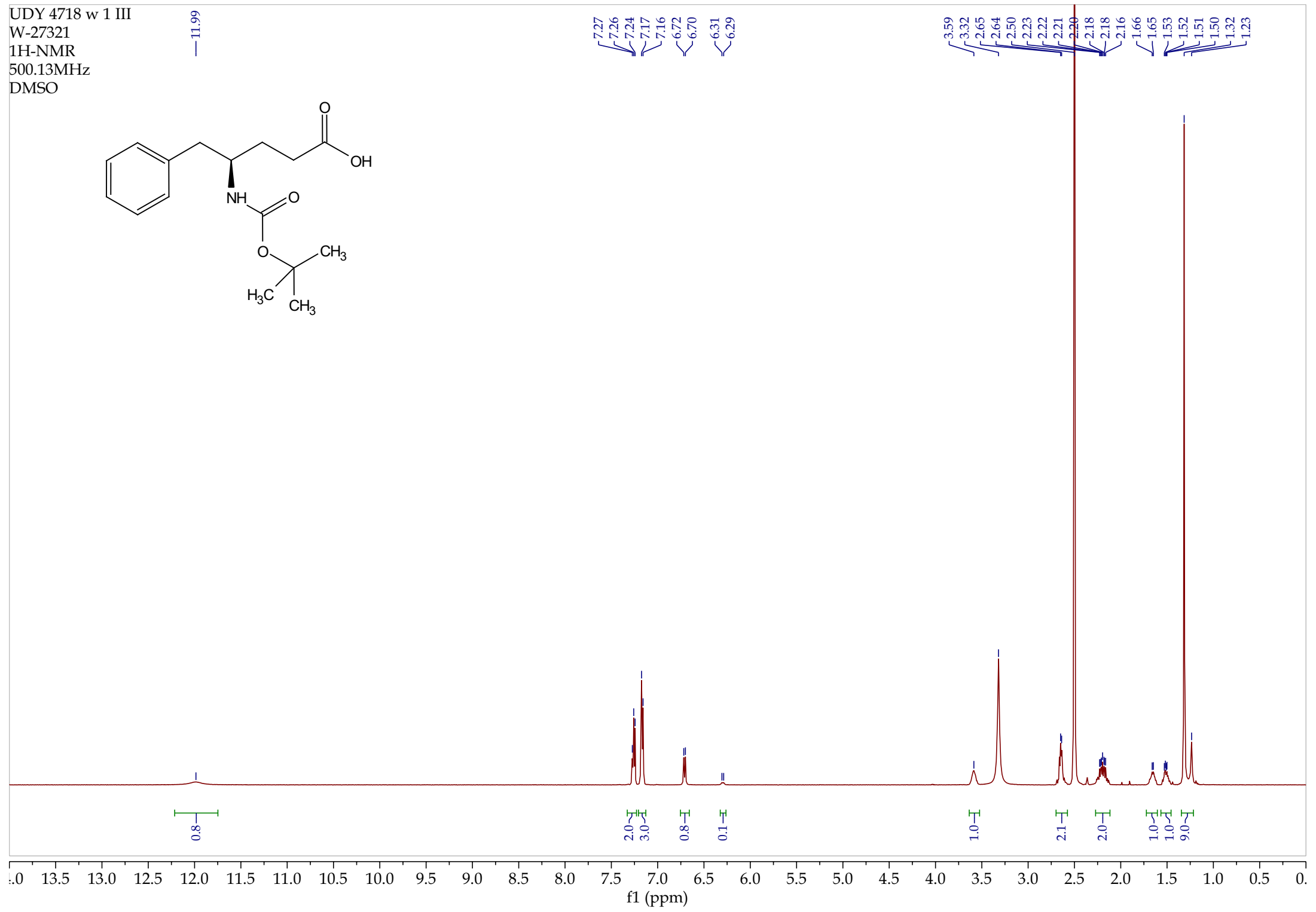
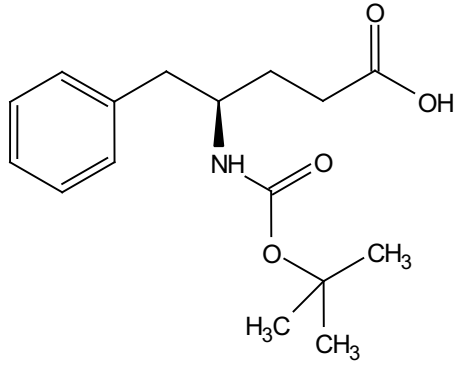
Parameter	Analytical Principle & Method ¹	Specified Result	Experimental Result	Unit
Appearance	Visual inspection	n.a.	white solid	n.a.
Identity	MS (ESI, pos. mode)	conforms to structure	316 [M+Na] ⁺ , 194 [MH-BOC] ⁺	m/z
Identity	¹ H-NMR	conforms to structure	conforms to structure	ppm
Purity	¹ H-NMR	known impurities < 2	no known impurities	mass-% by integral

Wolfen, 03.04.2019


A. Müller
Quality Control

¹ If the method is not specified in detail, ChiroBlock's standard methods apply (derivable from the analytical raw data [file] referenced in the project records).

UDY 4718 w 1 III
W-27321
1H-NMR
500.13MHz
DMSO



Internal Analysis for QC MS

Sample Information

UDY 4718 w1 III

Shimadzu CLASS-VP V6.12 SP5

Area % Report

Acquisition Date: 01.04.2019

Method Name: Iso 20%A, 210nm, 0.2ml, M50-2000, -10V + 10V.lcm

Data Name: Z:\Labor\LC\LC-An\LC-An-HPL-02\LC-MS\LC-MS-Läufe\15151-16000LC+LCMS\15151.lcd

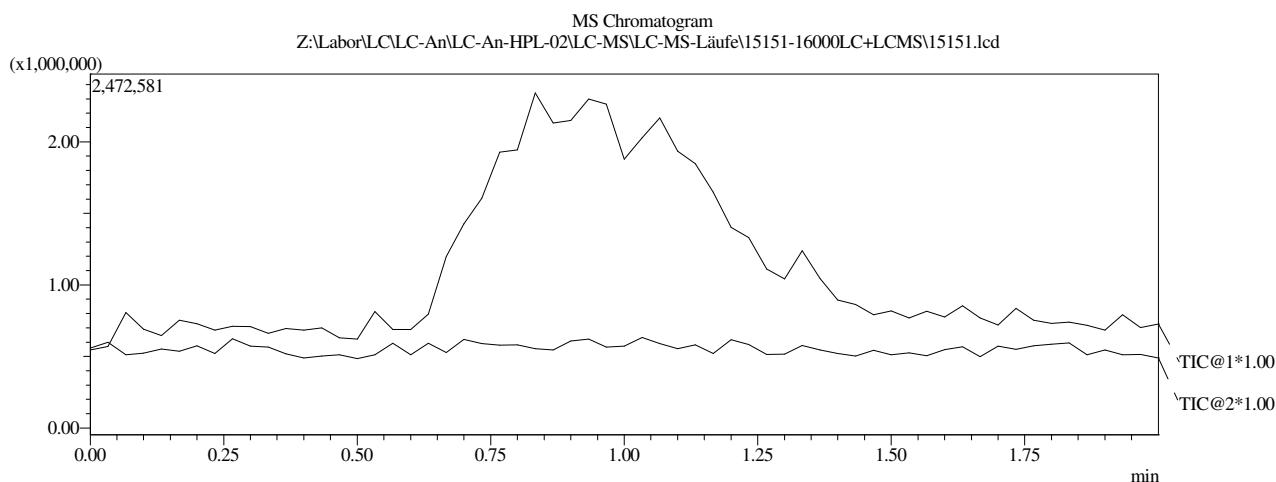
Column: direct injection

Eluents: A) H₂O B) acetonitrile

Flow rate: 0.2 ml/min

Detection: UV, 210 nm

Probe voltage: +4,5 kV (ESI-positive mode)



MS Spectrum Graph

#1 Ret.Time:Averaged 0.667-1.333(Scan#:41-81)

BG Mode:Averaged 0.000-0.529(1-33)

Mass Peaks:1225 Base Peak:315.90(398480) Polarity:Pos Segment1 - Event1

