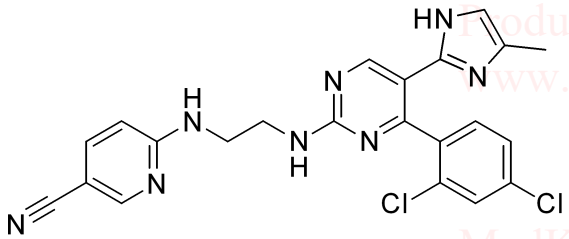
CHIR-99021 HNMR Analysis, Solvent = DMSO



MedKoo Cat#: 200774
Name: CHIR-99021
CAS#: 252917-06-9
Lot#: A8T12K19
Chemical Formula: C22H18Cl2N8
Exact Mass: 464.10315
Molecular Weight: 465.34

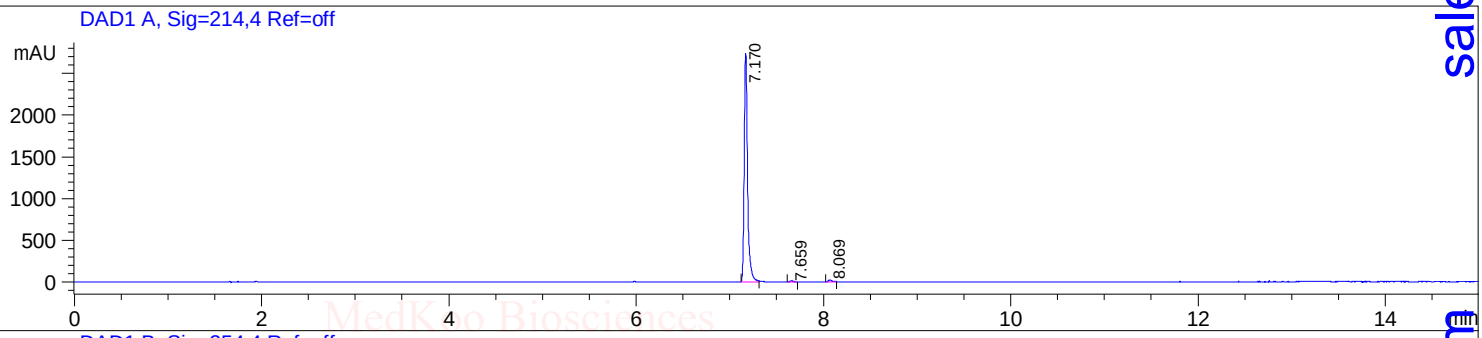
DMSO,

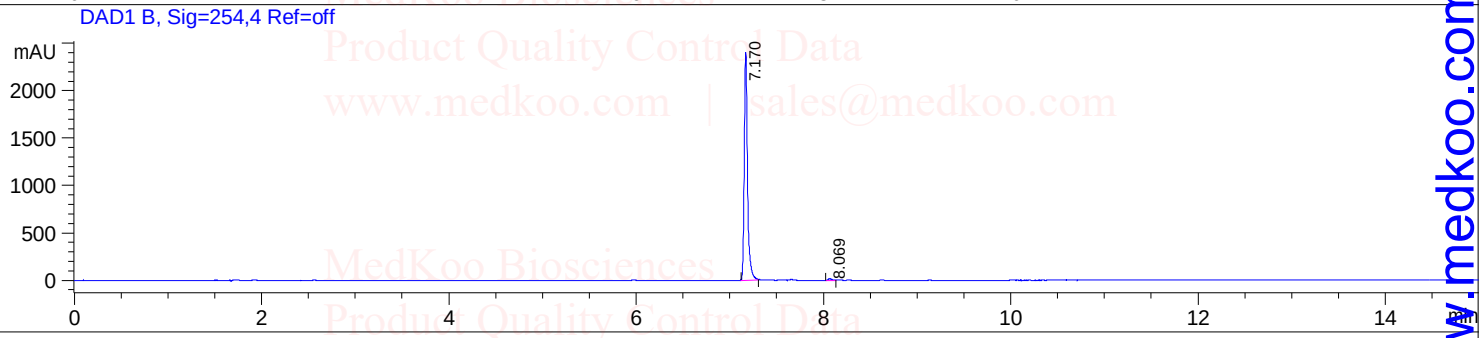
F1: 400.132	F2: 1.000	SW1: 8224		OF1: 2467.9		PTS1d: 32768
EX: zg30		PW: 13.0 usec	PD: 1.0 sec	NA: 8	LB: 0.0	Nuts - $pdata

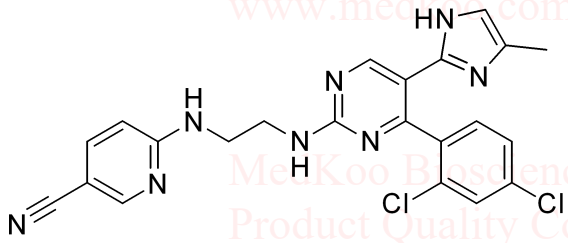
HPLC Analysis Report

Sample Name :252917-06-9

Analysis Method : D:\METHODS\2-POS-15MIN.M
Sample Info : Easy-Access Method: '2-POS-15MIN.M'
Method Info : Column: XBridge C18 (4.6* 50 mm , 3.5 um)
Mobile phase: H2O(10 mmol NH4HCO3) (A) / ACN(B)
Elution program: Gradient from 10 to 95% of B in 8 min at 1 ml/min
Column Temperature: 40 °C
Detection: UV (214, 254, 4 nm)







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Integration Results for DAD1 A, Sig=214,4 Ref=off

RetTim	Width	Area	Height	Area%
7.17	0.04	6770.60	2736.67	98.51
7.66	0.04	31.47	13.03	0.46
8.07	0.04	70.69	25.78	1.03

Integration Results for DAD1 B, Sig=254,4 Ref=off

RetTim	Width	Area	Height	Area%
7.17	0.04	5775.49	2403.78	99.15
8.07	0.04	49.58	18.40	0.85

LC-MS Analytical Report

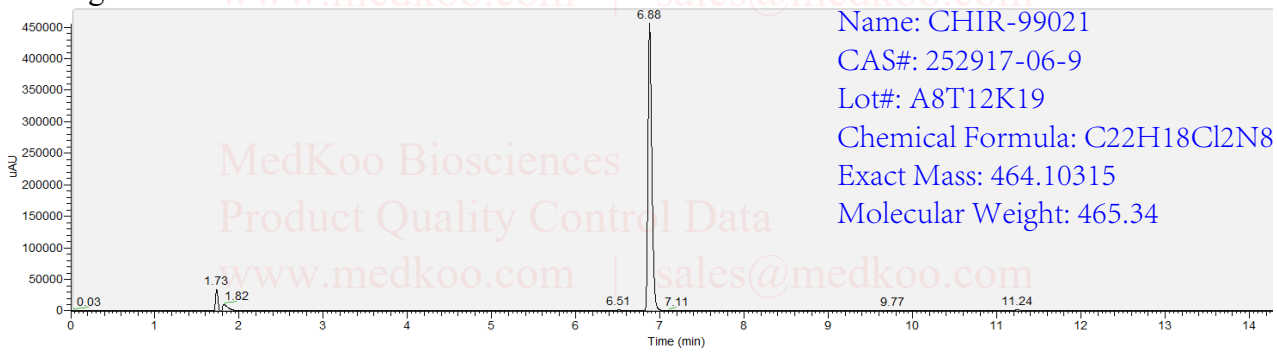
MedKoo Cat#:	Product Name:	Lot#:
200774	CHIR-99021	A8T12K19

1. Instrument: Dionex Ultimate 3000 series HPLC system (Thermo, Germering, Germany) and Q-Exactive MS system (Thermo. Bremen, Germany

2. LC condition:
(1) Mobile phase A (water with 0.1% formic acid) and mobile phase B (acetonitrile with 0.1% formic acid)
(2) Flow rate: 0.2 ml/min.
(3) Column: Phenomenex Gemini 3u C6-phenyl column (2.0 x 100 mm, 3 µm)
(4) Gradient: 0-1 min, 100% A; 10-20 min, 2% A

3. Mass spectrum was acquired in the range of m/z 100 - m/z 700 under positive ESI

UV chromatogram at 280 nm:



MedKoo Cat#: 200774
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Lot#: A8T12K19
Chemical Formula: C22H18Cl2N8
Exact Mass: 464.10315
Molecular Weight: 465.34

Mass spectrum (positive electrospary ionization) from above peak 6.88 min: