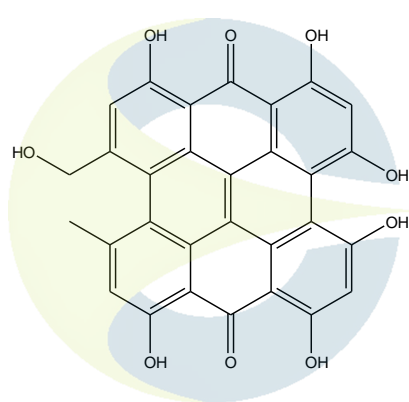


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PRODUCT NAME	Pseudohypericin	<div style="text-align: center;"> Structure  </div>
PART NUMBER	00016355	
STANDARD TYPE	Primary (P)	
LOT NUMBER	00016355-44B	
REPORT NUMBER	CDXA-RSS-8166-01	
SAMPLE NUMBER	CDXP-18-00633	
DATE OF SAMPLE	06/20/2018	
DATE OF RE-EVALUATION	05/04/2022	
DATE OF REPORT	06/10/2022	

CHEMICAL NAMES	1,3,4,6,8,13-Hexahydroxy-10-(hydroxymethyl)-11-methyl-phenanthro[1,10,9,8-opqra]perylene-7,14-dione
CHEMICAL FORMULA	C ₃₀ H ₁₆ O ₉
MOLECULAR WEIGHT (MW)	520.44
CHEMICAL FAMILY	Anthraquinones
CAS NUMBER	[55954-61-5]
EC#(EINECS)	611-335-2
RTECS	SF8473500

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	94.5%
HPLC	CDXA-AM-111-00	≥ 90%	99.3%
NMR	99.1-04-2.0-000122	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-04-3.0-000126	Conforms	Conforms
Residual Solvent	99.1-CDXA-3.0-000621	NA	Acetone < 0.1%; MeOH < 0.1%; EtOAc < 0.1%; Pyridine < 0.1%
Water	0.700.12.37	NA	4.8%
Appearance	NA	NA	Purple powder

ADJUSTED PURITY: 94.5% IS BASED ON (100 - 0.0 SOLVENTS - 4.8 WATER) X 99.3% HPLC

STORAGE CONDITIONS

STORAGE	-20 °C in a dry place.
EXPIRATION DATE	05/2027 under the above conditions.

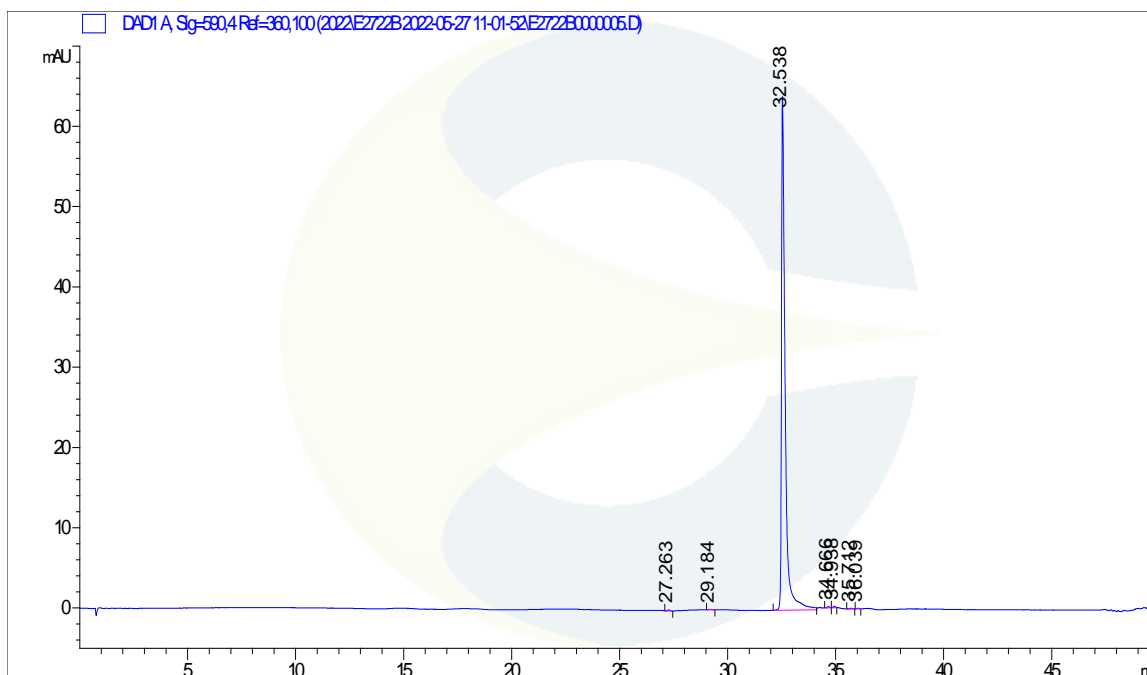
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ANALYTICAL CONDITIONS

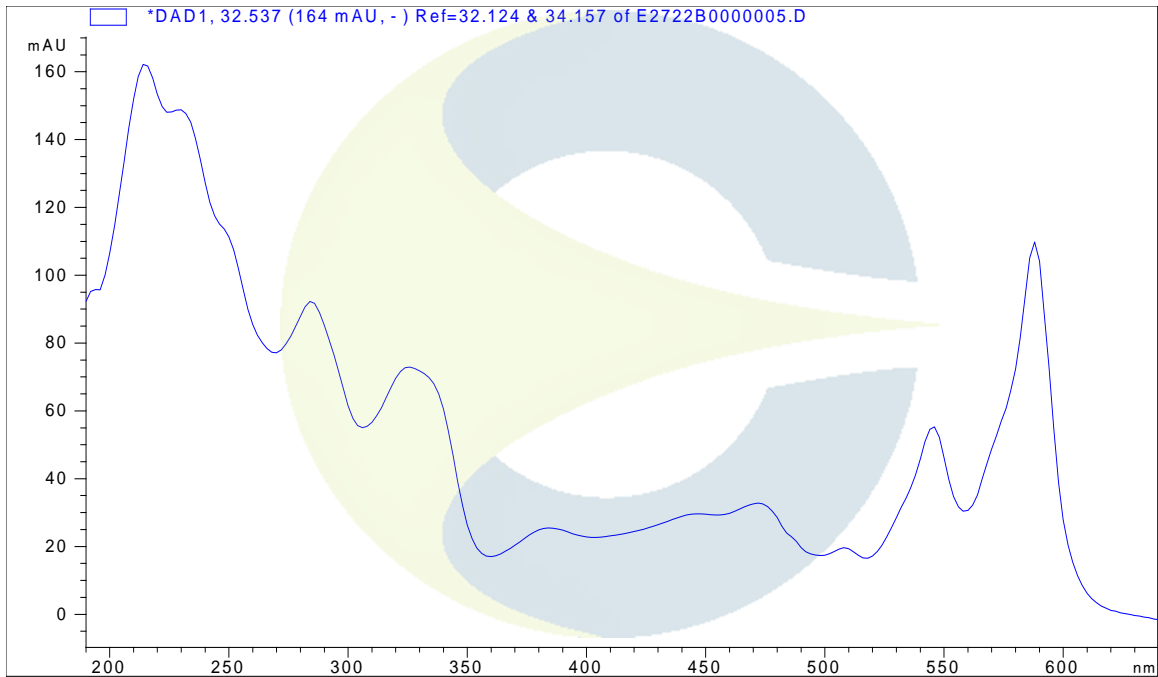
INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Synergi Max-RP 80A - 150 x 2.0 mm, 4 µm particle size
MOBILE PHASE	A – 10 mM Ammonium acetate in Ultrapure water, B – Methanol : Acetonitrile (9:1); 13% B increasing to 17% B over 10 minutes, then increasing to 95% B over 25 minutes. Hold at 95% B for 10 minutes, then decreasing to 13% B over 2 minutes.
COLUMN TEMP.	40 °C
FLOW RATE	0.5 mL/minute
INJECTION VOL.	5.0 µL
INJECTION CONC.	1.7 mg/mL in Methanol
DETECTION	590 ± 2 nm

HPLC CHROMATOGRAM OF PSEUDOHYPERICIN (CDXP-18-00633)


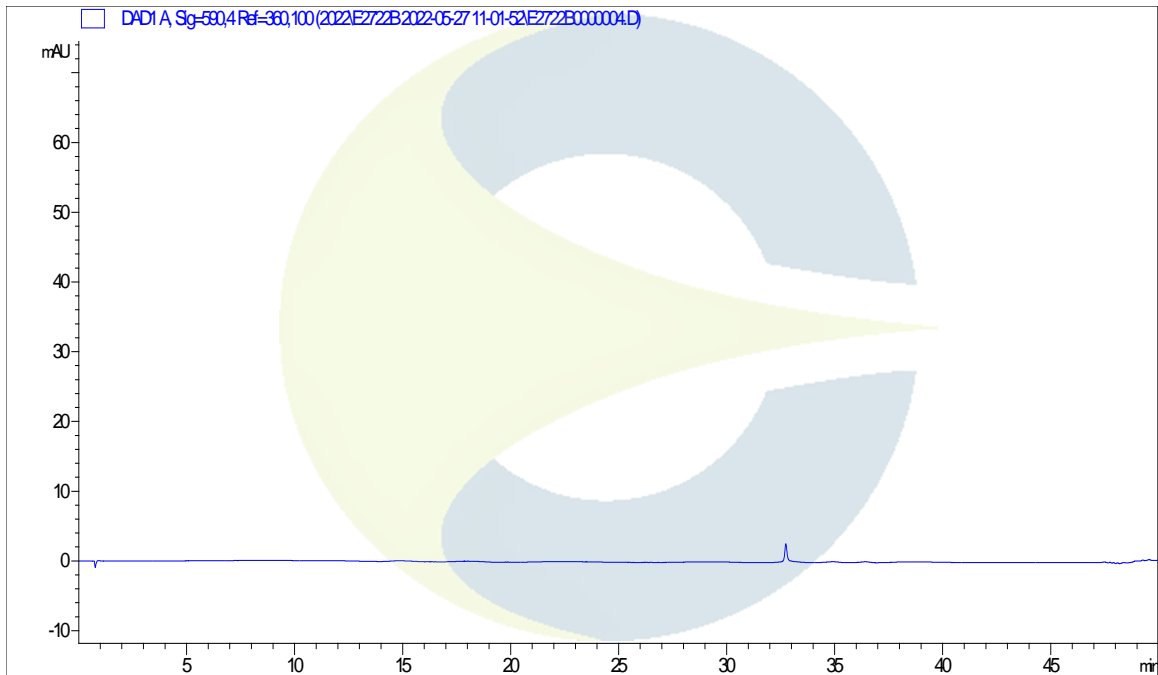
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UV SPECTRUM AT RT = 32.5 MINUTES

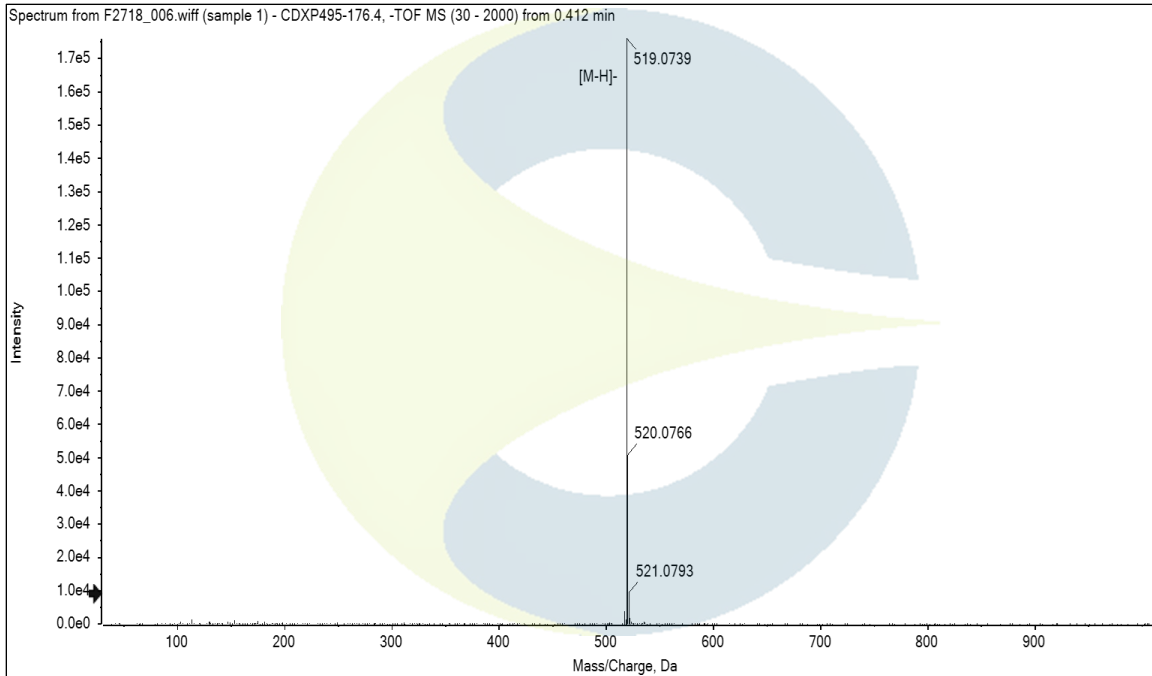


HPLC CHROMATOGRAM OF DILUENT BLANK

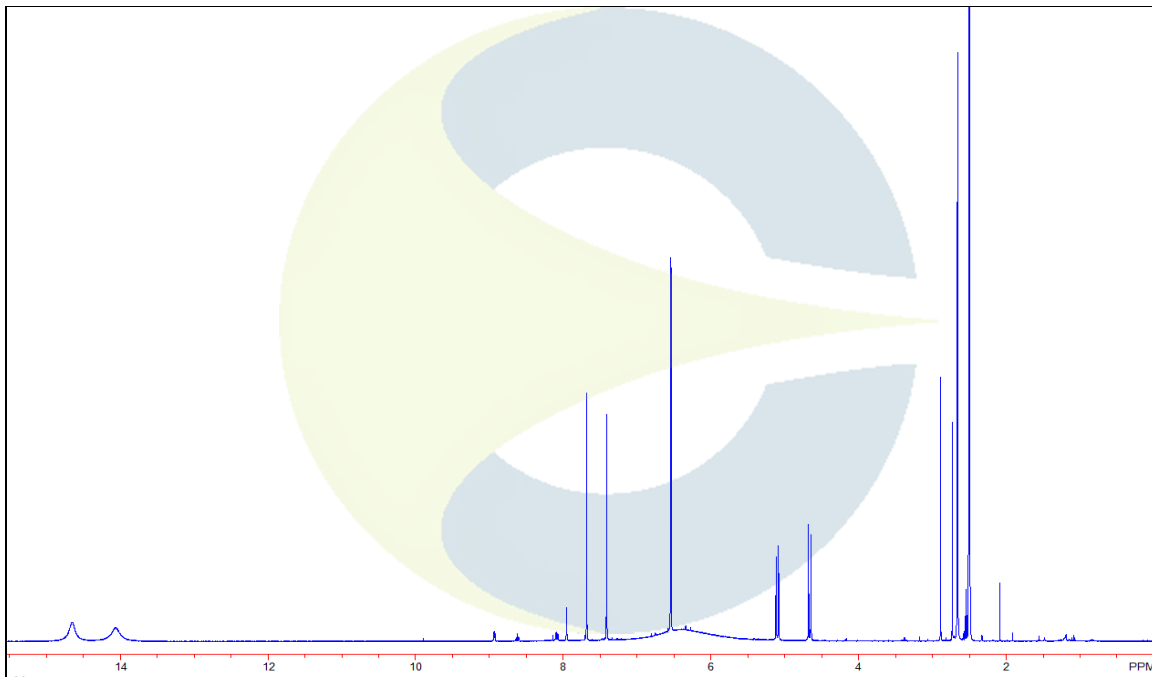


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MASS SPECTRUM OF PSEUDOHYPERICIN (CDXP-18-00633)

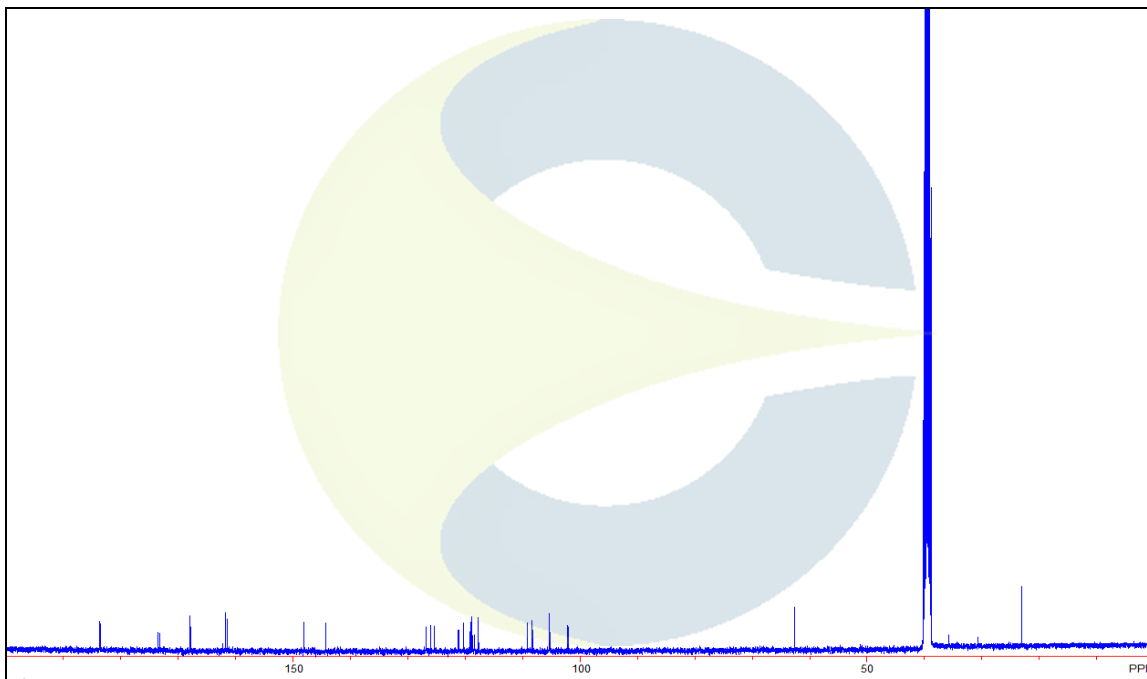


¹H-NMR SPECTRUM OF PSEUDOHYPERICIN (CDXP-18-00633) IN DMSO-d₆

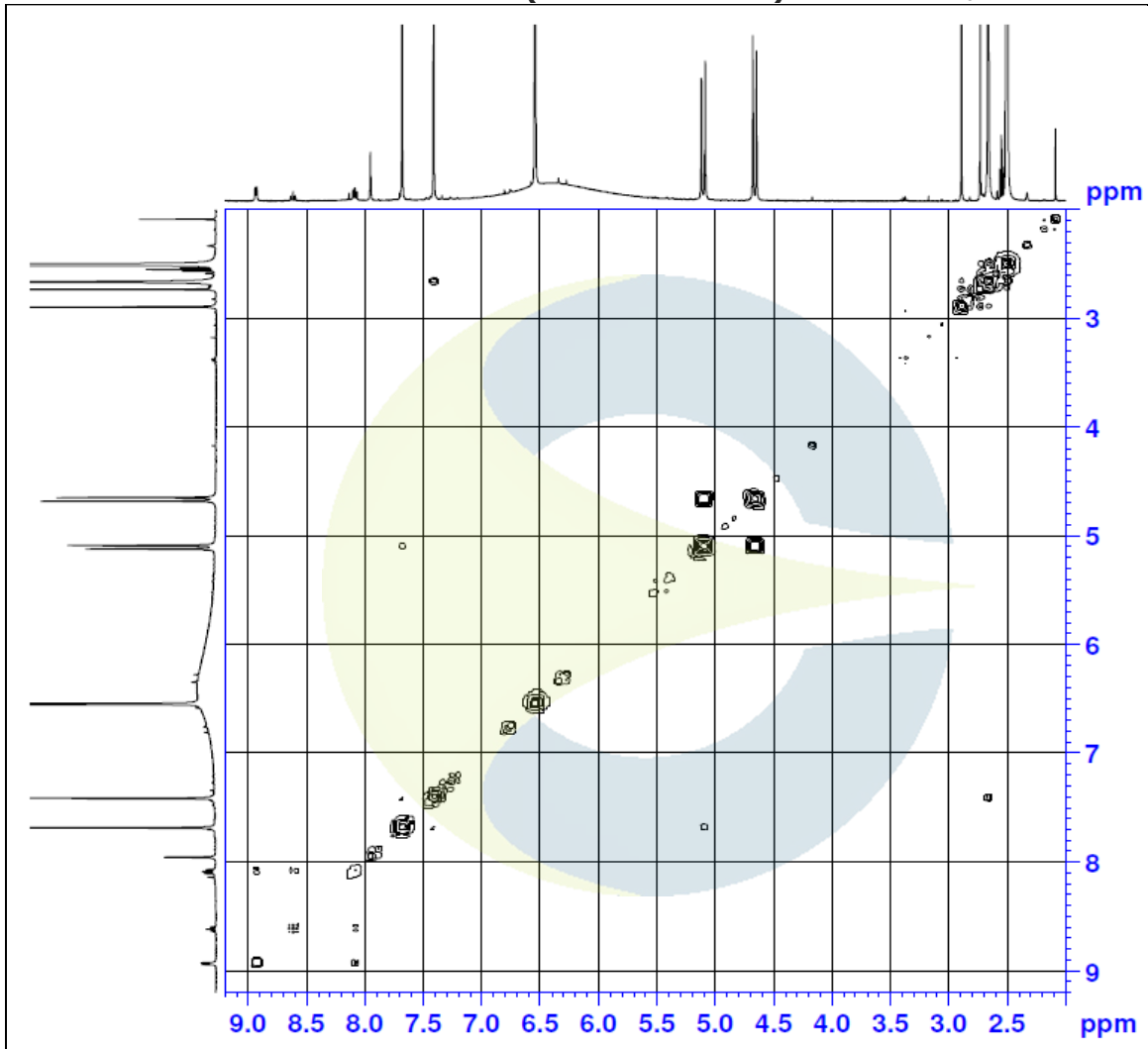


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¹³C-NMR SPECTRUM OF PSEUDOHYPERICIN (CDXP-18-00633) IN DMSO-d₆



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COSY-NMR SPECTRUM OF PSEUDOHYPERICIN (CDXP-18-00633) IN DMSO-d₆

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	08/06/2018	New report
01	06/10/2022	Passed re-evaluation by HPLC, KF. Updated expiration date, analytical results, analytical conditions, and chromatograms. Added RTECS.

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