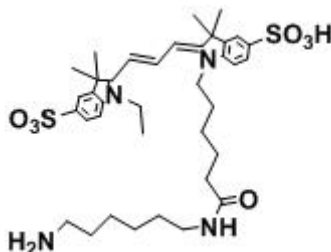


Certificate of Analysis

General properties:

Name: Sulfo Cyanine3-amine
Molecular Weight: 728.33Dalton
Cat.#: R-H-3072
Lot.#: RM017174
Date of Analysis: 2017.03.15
Recommended Retest date: 2018.03.15
Stability: 12 months
Storage: -20°C in the dark

Structure



Items	Specification	Results
Appearance	Red solid	Red solid
¹ H NMR	Identical to the structure	Identical to the structure
Foreign Material	None	None
Purity by HPLC	>95%	98.35%

Report Date: 2017.03.05

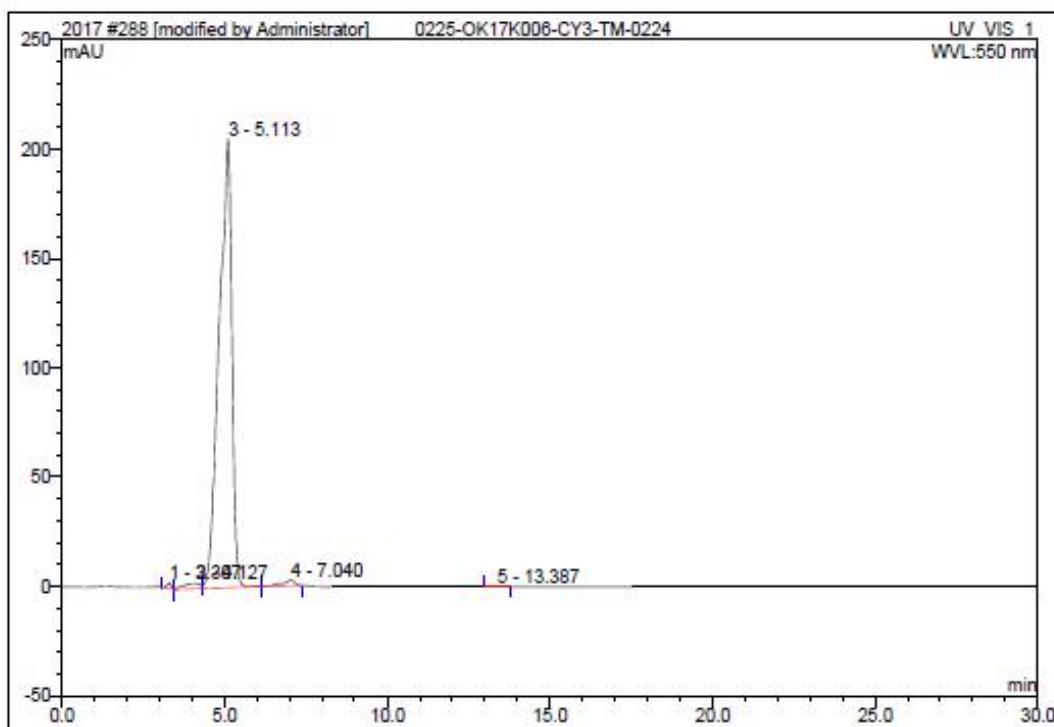
Attachment 1: HPLC

Operator:Administrator Timebase:HPLC Sequence:2017

Page 1.
2017-3-15 8:55 上

288 0225-OK17K006-CY3-TM-0224

Sample Name:	0225-OK17K006-CY3-TM-0224	Injection Volume:	20.0
Vial Number:	295	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	550
Control Program:	MeOH-A-60-08	Bandwidth:	n.a.
Quantif. Method:	DEMO340	Dilution Factor:	1.0000
Recording Time:	2017-2-25 17:41	Sample Weight:	1.0000
Run Time (min):	30.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	3.31	n.a.	2.665	0.413	0.43	n.a.	BMB
2	4.13	n.a.	2.456	1.457	1.51	n.a.	BM
3	5.11	n.a.	205.379	93.399	96.68	n.a.	MB
4	7.04	n.a.	2.582	1.169	1.21	n.a.	BMB
5	13.39	n.a.	0.399	0.168	0.17	n.a.	BMB
Total:			213.481	96.607	100.00	0.000	

Attachment 2: ¹H NMR (400MHz, d⁶-DMSO)

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