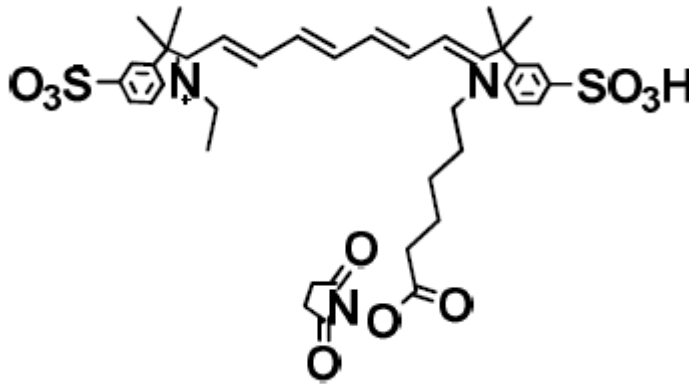


## Certificate of Analysis

### General properties:

Name: Sulfo-Cyanine7 NHS ester  
Molecular Weight: 779.22 Dalton  
Chemical Formula: C<sub>39</sub>H<sub>45</sub>N<sub>3</sub>O<sub>10</sub>S<sub>2</sub>  
Cat.#: R-H-7109  
Lot.#: R965T10H  
Date of Analysis: 2016.11.24  
Recommended Retest date: 2017.11.24  
Stability: 12 months  
Storage: -20°C in the dark

### Structure



Items	Specification	Results
Appearance	dark green solid	dark green solid
<sup>1</sup> H NMR	Identical to the structure	Identical to the structure
Foreign Material	None	None
Purity by HPLC	>95%	95.4%

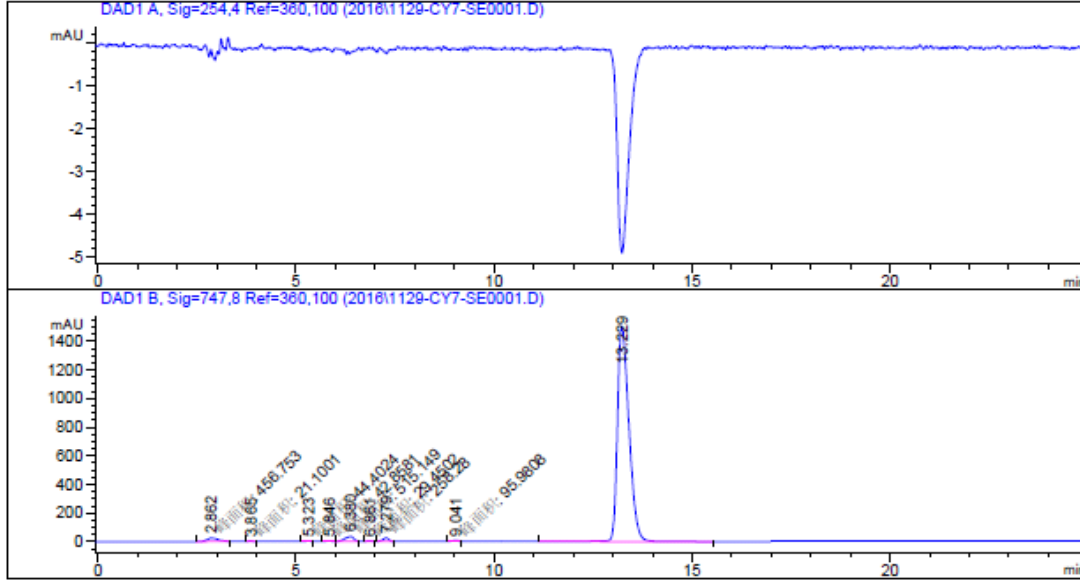
Report Date: 2016.11.24

Attachment 1: HPLC

进样量 : 2.0 µl

采集方法 : C:\CHEM32\1\METHODS\C7-SE.M  
 最后修改 : 2016/8/26 10:58:44 : fan  
 分析方法 : C:\CHEM32\1\METHODS\MEOH-A-65-08.M  
 最后修改 : 2016/12/2 10:37:57 : fan  
 (调用后修改)  
 样品信息 : MeCN:H2O(0.1%TFA)=28:72, 0.8ml/min, 254, 747nm,

附加信息: 峰已手动积分



=====  
面积百分比报告  
=====

排序 : 信号  
 乘积因子: : 1.0000  
 稀释因子: : 1.0000  
 内标使用乘积因子和稀释因子

信号 1: DAD1 A, Sig=254,4 Ref=360,100

信号 1: DAD1 A, Sig=254,4 Ref=360,100

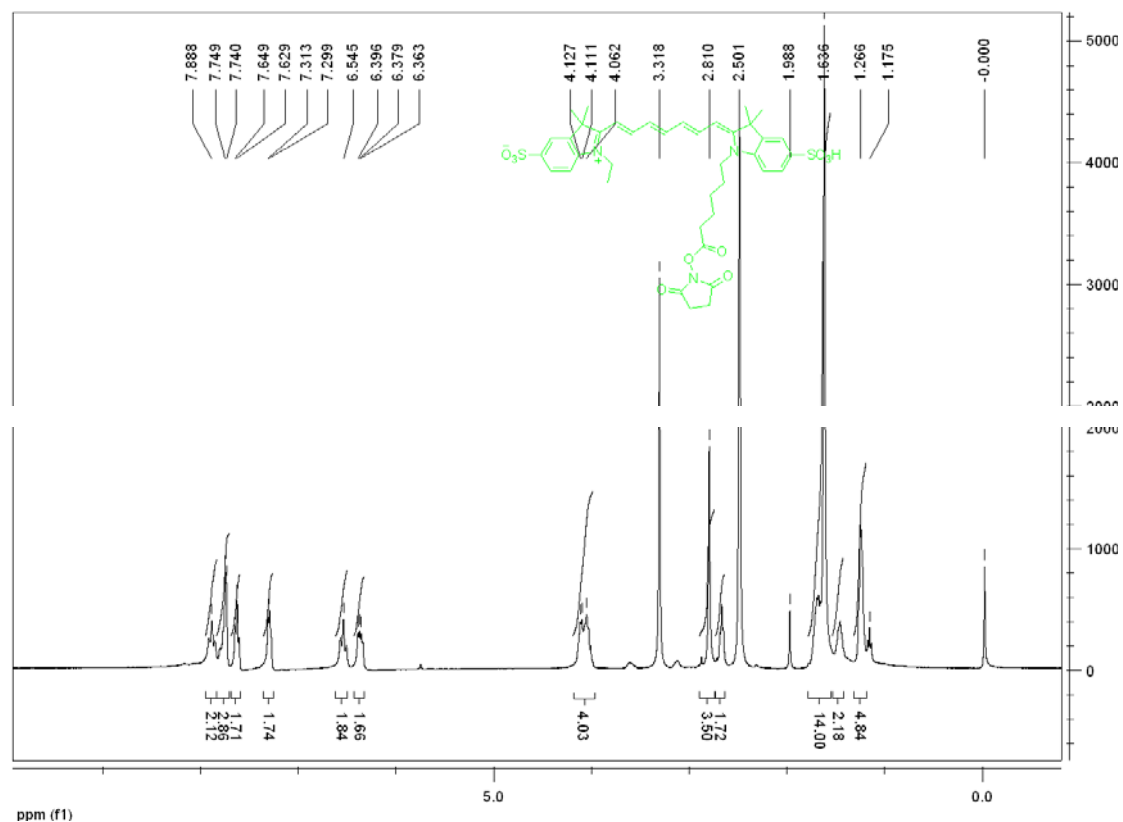
信号 2: DAD1 B, Sig=747,8 Ref=360,100

峰 #	保留时间 [min]	类型	峰宽 [min]	峰面积 [mAU*s]	峰高 [mAU]	峰面积 %
1	2.862	MM	0.3118	456.75266	24.41136	1.4320
2	3.865	MM	0.1250	21.10011	2.81334	0.0662
3	5.323	MM	0.2010	44.40237	3.68229	0.1392
4	5.846	MM	0.1475	42.85812	4.84341	0.1344

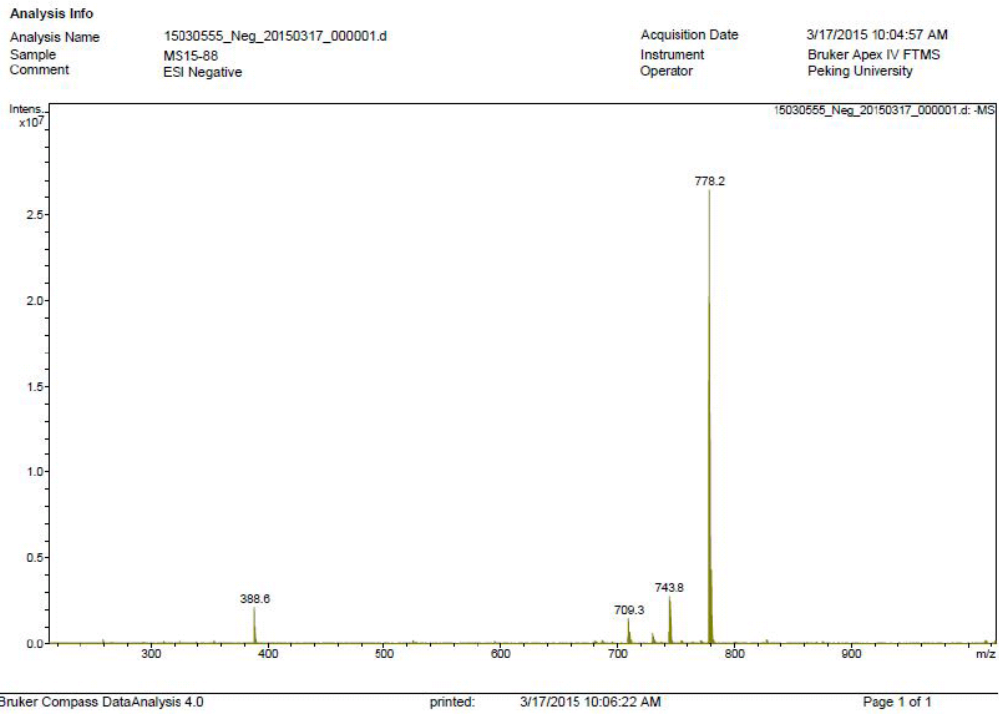
峰 #	保留时间 [min]	类型	峰宽 [min]	峰面积 [mAU*s]	峰高 [mAU]	峰面积 %
5	6.380	MM	0.2565	515.14935	33.47878	1.6151
6	6.861	MM	0.1398	29.45022	3.51040	0.0923
7	7.279	MM	0.1741	258.27994	24.72314	0.8098
8	9.041	MM	0.1860	95.98077	8.59928	0.3009
9	13.229	BB	0.3124	3.04312e4	1501.52405	95.4100

总量 : 3.18951e4 1607.58604

### Attachment 2: <sup>1</sup>H NMR (400MHz, d<sub>6</sub>-DMSO)



### Attachment 3: MS-ESI



**This product is for research use only, Not for human or animal use**