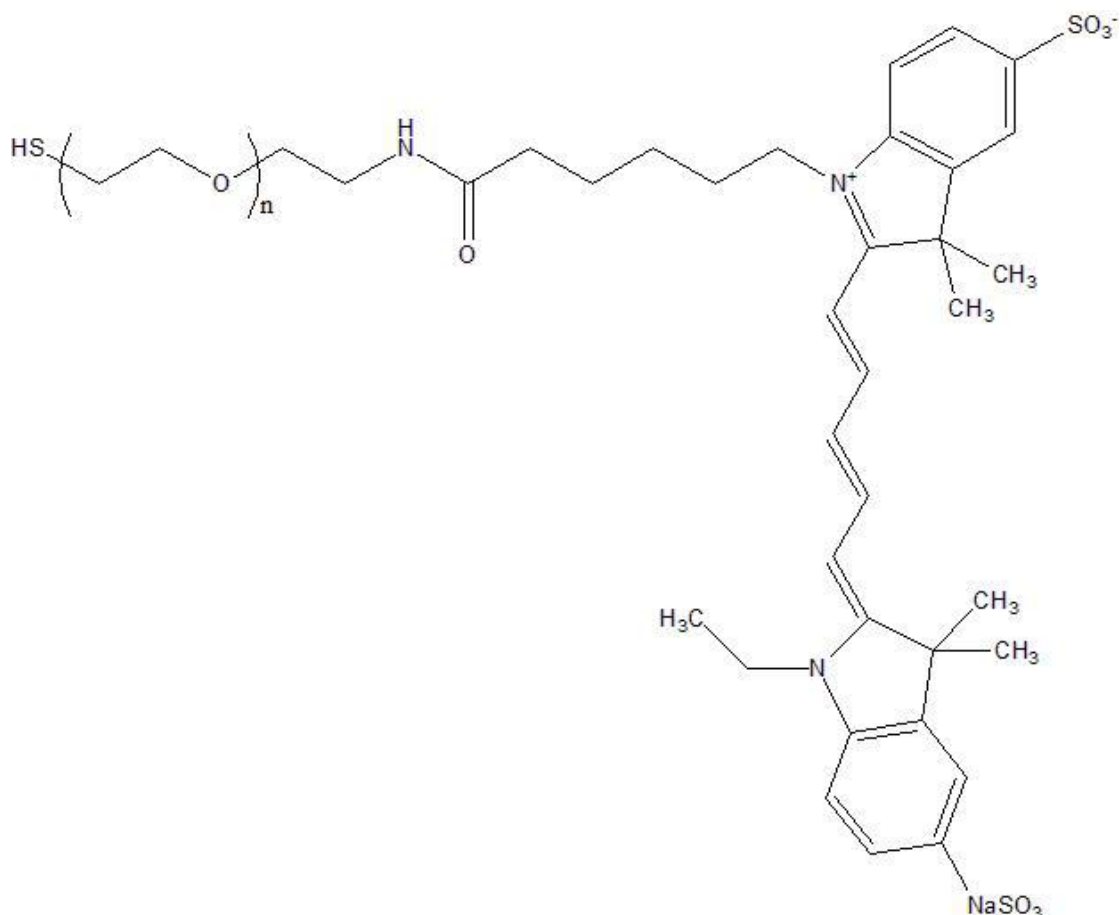


## Certificate of Analysis

### General properties:

Product Name: Sulfo-CY5-PEG-SH  
Molecular Weight: PEG MW:750/1000/2000/3400/5000 Dalton  
Catalog Number: R-2219  
Lot Number: RA071320

### Product Structure:



**Product Specifications:**

Items	Specification	Results
Appearance	Dark blue solid or viscous liquid	Dark blue solid or viscous liquid
<sup>1</sup> H NMR	Identical to the structure	Identical to the structure
Substitution of Sulfo-CY5 by NMR	>90%	>90%
Substitution of SH by NMR	>90%	>90%
Ex/Em	650nm-670nm	650nm-670nm

Date of Analysis: 2017.09.26

Recommended Retest date: 2018.09.26

Recommended Storage: -20°C

Stability: 1 year

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