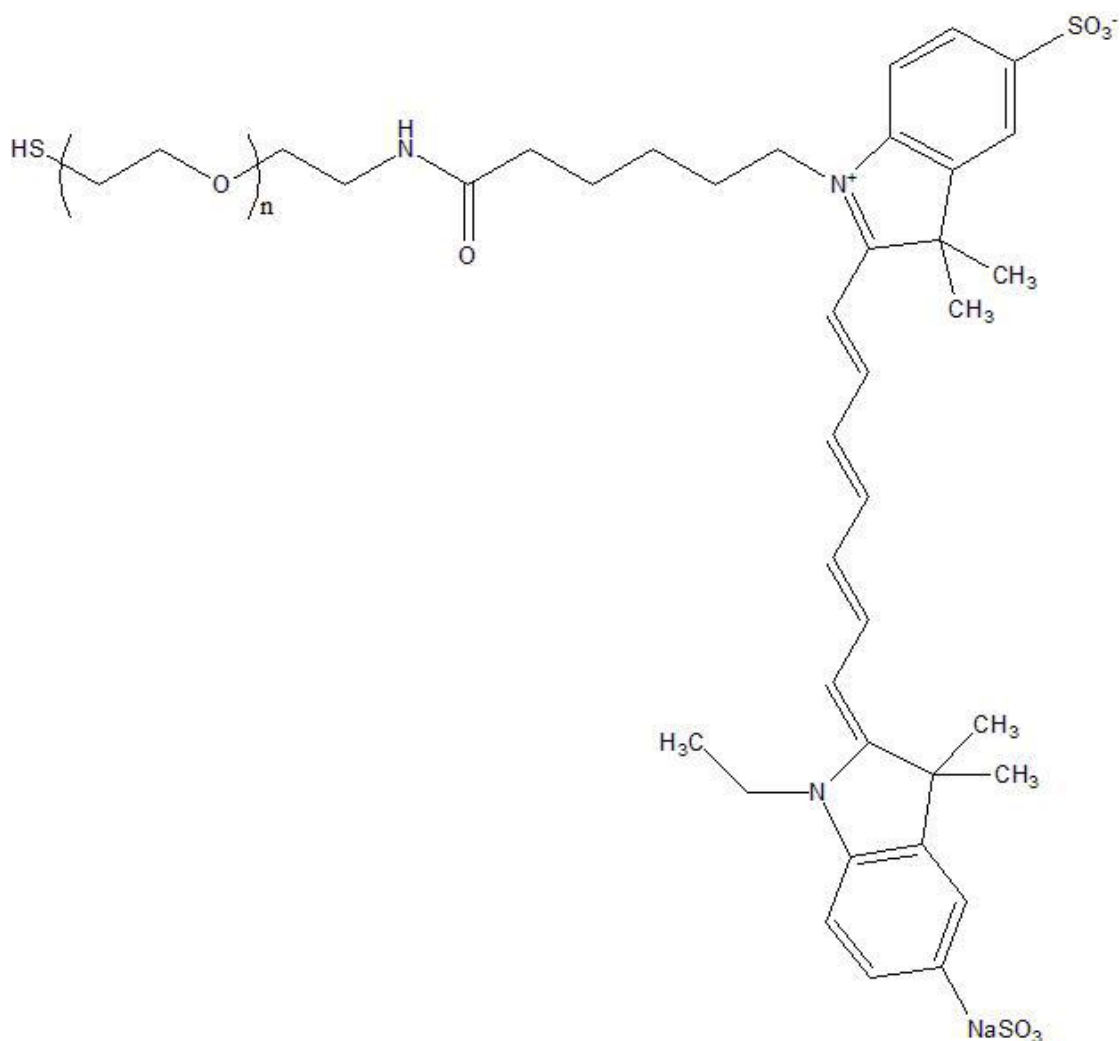


Certificate of Analysis

General properties:

Product Name: Sulfo-CY7-PEG-SH
Molecular Weight: PEG MW:750/1000/2000/3400/5000 Dalton
Catalog Number: R-2225
Lot Number: RA071326

Product Structure:



Product Specifications:

| Items | Specification | Results |
|----------------------------------|------------------------------------|------------------------------------|
| Appearance | Dark green solid or viscous liquid | Dark green solid or viscous liquid |
| ¹ H NMR | Identical to the structure | Identical to the structure |
| Substitution of Sulfo-CY7 by NMR | >90% | >90% |
| Substitution of SH by NMR | >90% | >90% |
| Ex/Em | 750nm-770nm | 750nm-770nm |

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