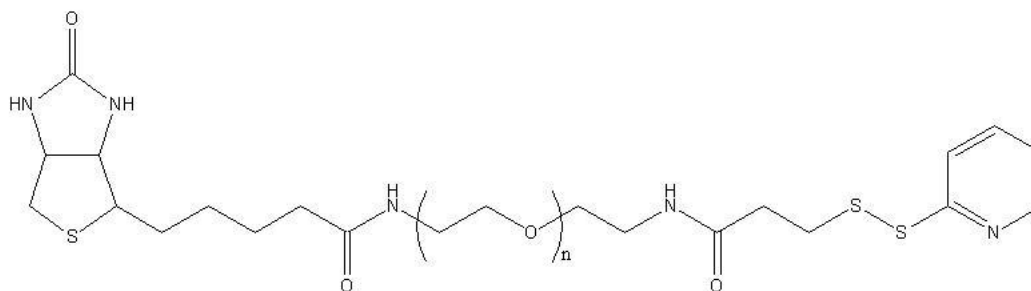


## Certificate of Analysis

### General properties:

Produ Name: OPSS-PEG-Biotin  
 Molecular Weight: PEG:750/1000/2000/3400/5000 Dalton  
 Catalog Number: R-1906  
 Lot Number: WD445079

### Product Structure:



### Product Specifications:

| Items                        | Specification                           | Results                                 |
|------------------------------|---|---|
| Appearance                   | White/Off-white solid or viscous liquid | White/Off-white solid or viscous liquid |
| <sup>1</sup> H NMR           | Identical to the Structure              | Identical to the Structure              |
| Substitutin OPSS of by NMR   | >90%                                    | >90%                                    |
| Substitutin Biotin of by NMR | >90%                                    | >90%                                    |

Date of Analysis: 2017.08.16

Recommended Retest date: 2018.09.15

Recommended Storage: -20°C in the dark

Stability: 12 months

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