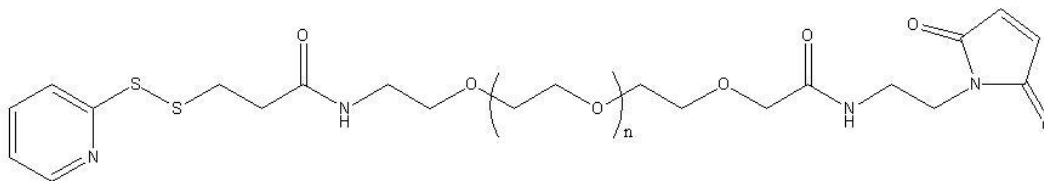


Certificate of Analysis

General properties:

Product Name: MAL-PEG-OPSS
Molecular Weight: PEG MW:750/1000/2000/3400/5000 Dalton
Catalog Number: R-1407
Lot Number: RS142143

Product Structure:



Product Specifications:

Items	Specification	Results
Appearance	White/Off-white solid or viscous liquid	White/Off-white solid or viscous liquid
^1H NMR	Identical to the structure	Identical to the structure
Substitution of MAL by NMR	>90%	>90%
Substitution of OPSS by NMR	>90%	>90%

Date of Analysis: 2017.09.27

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