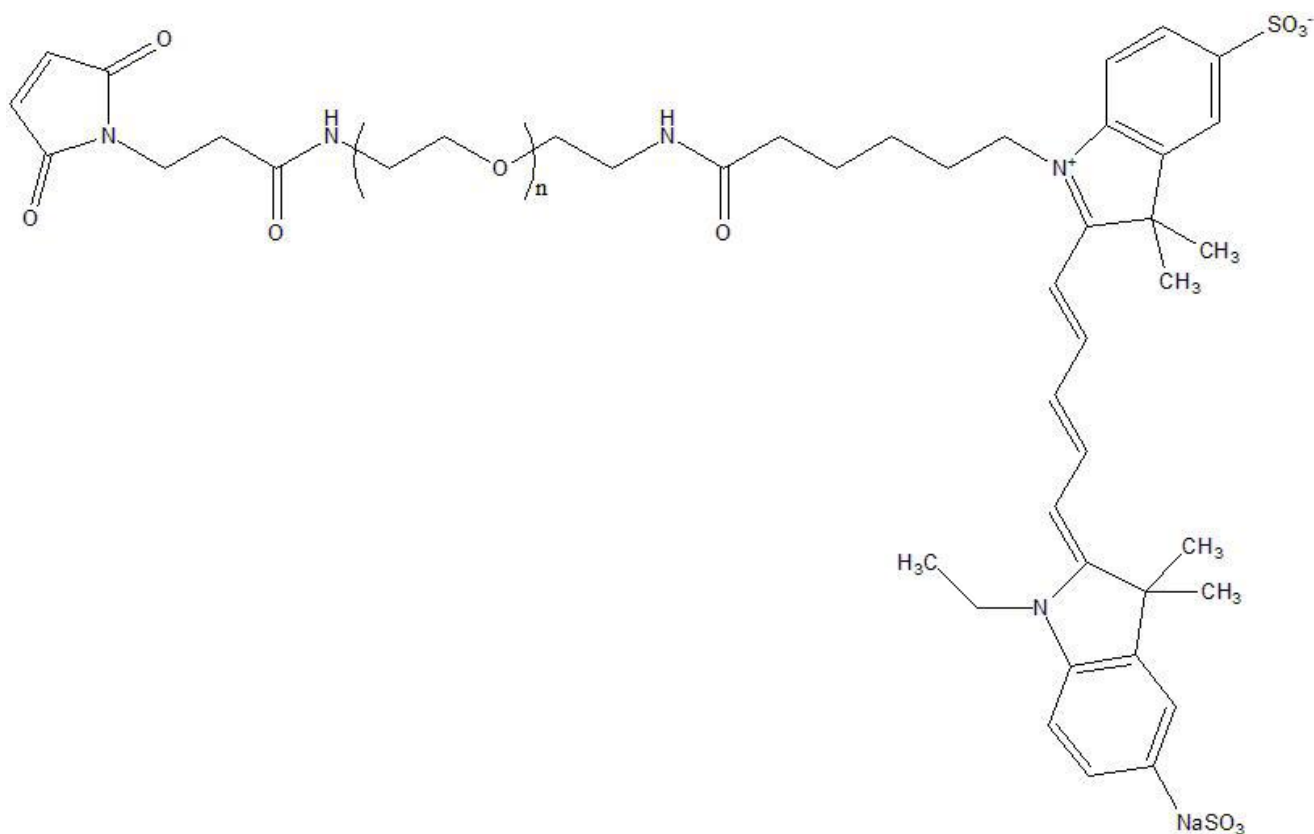


Certificate of Analysis

General properties:

Product Name: Sulfo-CY5-PEG-MAL
Molecular Weight: PEG MW:750/1000/2000/3400/5000 Dalton
Catalog Number: R-2218
Lot Number: RA071319

Product Structure:



Product Specifications:

Items	Specification	Results
Appearance	Dark blue solid or viscous liquid	Dark blue solid or viscous liquid
¹ H NMR	Identical to the structure	Identical to the structure
Substitution of Sulfo-CY5 by NMR	>90%	>90%
Substitution of MAL 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