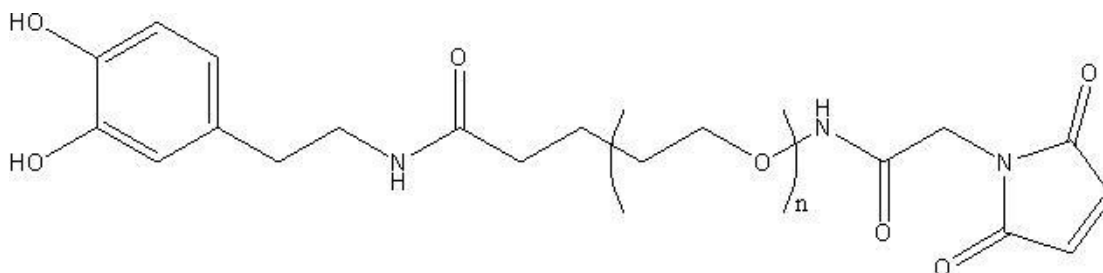


Certificate of Analysis

General properties:

Product Name: MAL-PEG-Dopamine
 Molecular Weight: PEG MW:750/1000/2000/3400/5000 Dalton
 Catalog Number: R-1409
 Lot Number: RO018183

Product Structure:



Product Specifications:

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

Date of Analysis: 2018.10.18

Recommended Retest date: 2019.10.17

Recommended Storage: -20°C in the dark

Stability: 1 year

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