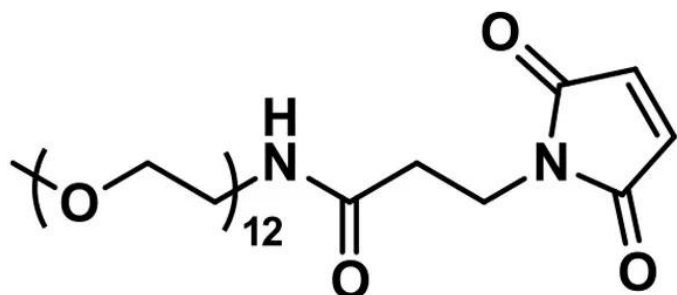




M-DPEG®₁₂-MAL

SKU: QBD-10289



DESCRIPTION

m-dPEG®₁₂-MAL, product number QBD-10289, is a sulfhydryl-reactive, single molecular weight, with a discrete chain length PEG (dPEG®). This product modifies surfaces and biomolecules with free thiol groups through the maleimide reactive group. The non-immunogenic, methyl-terminated dPEG® chain has no charge but adds water solubility and hydrodynamic volume to molecules to which it is conjugated.

The reaction of the maleimide end of m-dPEG®₁₂-MAL, product number QBD-10289, with a sulfhydryl proceeds best at pH 6.5 – 7.5. Conduct the conjugation at the lowest reasonable pH within this range. Above pH 7.5, free amines compete with free thiols at the maleimide reaction site, which creates confusing results. Moreover, at higher pH values, the maleimide ring may open to form unreactive maleamic acid.

Published uses for m-dPEG®₁₂-MAL include probing the molecular structure and function of proteins and coating nanoparticle surfaces. In particular, studies of molecular structure and function of proteins would not be possible with traditional, dispersed PEG products because the dispersed PEGs would have created an indecipherable mixture of conjugation products. Only a dPEG® product could work in this application.

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.



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