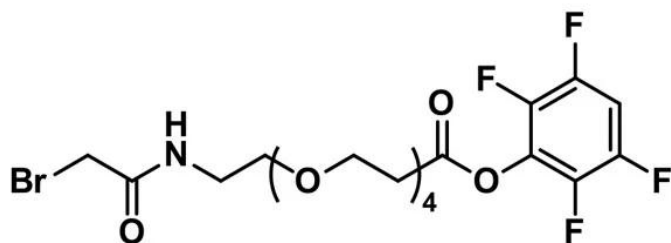




BROMOACETAMIDO-DPEG®4-TFP ESTER

SKU: QBD-11200



DESCRIPTION

Bromoacetamido-dPEG®4-TFP ester, product number QBD-11200, is a short (18 atoms, 20.4 Å), single molecular weight, discrete PEG (dPEG®) crosslinker functionalized with a thiol-reactive bromoacetate group on one end and an amine-reactive 2,3,5,6-tetrafluorophenyl (TFP) ester on the other.

The short, flexible, non-immunogenic dPEG® crosslinker increases the hydrodynamic volumes of conjugates in aqueous media, thereby increasing water solubility. The increased hydrodynamic volume can reduce or eliminate conjugate molecules' renal clearance and shield conjugates from opsonization.

The bromoacetate moiety is an alternative to the maleimide group, reacting chemoselectively with free thiols at pH ≥ 8.0 . It is useful for situations where the conjugate molecule needs to be kept at a high pH (≥ 8.0), above the range where maleimides can be used effectively, or in constructs where maleimide groups are unstable.

TFP esters are an alternate reactive group to N-hydroxysuccinimidyl (NHS) esters and react with amines at an optimal pH range of 7.5 – 8.0, higher than the optimal range for NHS esters (pH 7.0 – 7.5). TFP esters are more hydrolytically stable than NHS esters, and they are more reactive toward amines in their optimal pH range than NHS esters are within the pH range 7.0 – 7.5.

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



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