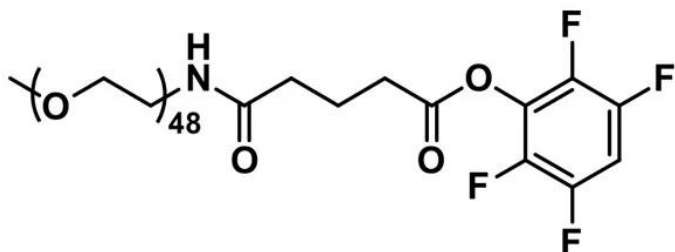




Email: customerservice@vectorlabs.com

Telephone: [\(650\) 697-3600](tel:6506973600)

SKU: OBD-10143



m-dPEG[®]₄₈-NH-CO(CH₂)₃CO-TFP ester, product number QBD-10143, is a long (151 atoms, 178.5 Å), methyl-terminated, discrete-length polyethylene glycol (dPEG[®]) spacer. With a reactive end of 2,3,5,6-tetrafluorophenyl (TFP) ester, m-m-dPEG[®]₄₈-NH-CO(CH₂)₃CO-TFP ester is designed to modify surfaces containing available free amines.

In aqueous media, free amines react optimally with TFP esters at pH 7.5 – 8.5. Compared to N-hydroxysuccinimidyl (NHS) esters, TFP esters are more hydrolytically stable in water and aqueous buffer. Nevertheless, in aqueous media, the rate at which the ester hydrolyzes to the carboxylic acid increases as the pH rises. Moreover, please note that reacting free amines on biomolecules with this uncharged, methyl-capped dPEG® spacer may alter the overall charge of the resulting conjugates.

Many applications potentially could use m-dPEG[®]₄₈-NH-CO(CH₂)₃CO-TFP ester successfully. Among those applications are: cell surface engineering; PK, BD, and immunogenicity profile improvements for biomolecules; imaging applications, by reducing background and non-specific binding and consequently increasing the signal-to-noise ratio; dendrimer construction; nanoparticle, quantum dot, and carbon nanotube surface coating; and, prevention of protein aggregation.

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

m-dPEG®₄₈-NH-CO(CH₂)₃CO-TFP ester

<https://vectorlabs.com/products/m-dpeg48-nh-coch23co-tfp-ester/>

