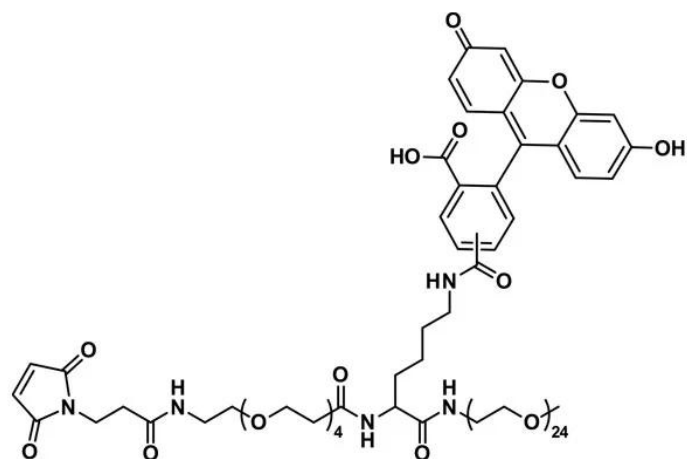




MAL-DPEG®4-LYS(-5(6)-CARBOXYFLUORESC EIN)-NH-M-DPEG®24

SKU: QBD-11577



DESCRIPTION

MAL-dPEG®4-Lys(5(6)-carboxyfluorescein)-NH-m-dPEG®24, product number QBD-11577, is one of Vector Laboratories' unique, patented class of modular, designable payload delivery reagents called Sidewinder™. Sidewinder™ products are built on a discrete PEG (dPEG®) backbone for use in antibody-drug conjugates (ADCs) and related constructs. The payload (cytotoxin, dye, small molecule) loads onto the chain's sidearm. The distal end's methoxy-terminated dPEG®24 spacer protects payloads and modifies performance.

The maleimide reactive group of MAL-dPEG®4-Lys(5(6)-carboxyfluorescein)-NH-m-dPEG®24, product number QBD-11577 reacts with free thiols on the biomolecule through the thiol-maleimide reaction (a Michael addition reaction). The sidearm is functionalized with 5(6)-carboxyfluorescein (ex/em = 493/517) and can be used to track cell trafficking and internalization of a conjugated molecule such as an antibody or antibody fragment.

Sidewinder™ products are designed to facilitate the creation of stable, high-DAR ADCs. Published research has shown that putting a hydrophobic payload (e.g., a cytotoxin) close to the antibody surface and protecting it with a SuperHydrophilic™ dPEG® construct is better by many

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



measures of efficacy than putting the payload at the distal end of the linker. This molecule can also be used to modify and optimize BD, cell trafficking and internalization, serum half-life, and immunogenicity.

The dPEG® linkers and spacers in the Sidewinder™ construct are uniform, single molecular-weight PEGs with discrete chain lengths. This differs from traditional, non-uniform polymer PEG linkers and spacers, which have a dispersed range of PEG chain lengths, each with a unique molecular weight. In contrast to dispersed polymer PEGs, dPEG® products are high-purity compounds with reproducible purity profiles.

Sidewinder™ molecules are also fully designable. MAL-dPEG®4-Lys(5(6)-carboxyfluorescein)-NH-m-dPEG®24 can be modified to change the spacer lengths, add more sidearm attachment points, add different sidearm attachment points to carry payloads with different reactivities, change the maleimide attachment group to a different reactive group, and many more customizations. Please inquire about your specific needs.

SPECIFICATIONS

CAS Number	N/A
Molecular Weight	1973.20; single compound
Chemical Formula	C ₉₄ H ₁₄₉ N ₅ O ₃₉
Purity	> 95%
Unit Size	5 mg
Solubility	Methylene Chloride or Dimethylformamide
Spacers	dPEG® Spacer is 99 atoms and 113.3 Å
Storage Instructions	-20°C; Always let come to room temperature before opening; be careful to limit exposure to moisture and restore under an inert atmosphere; stock solutions can be prepared with dry solvent and kept for several days (freeze when not in use). dPEG® pegylation compounds are generally hygroscopic and should be treated as such. This will be less noticeable with liquids, but the solids will become tacky and difficult to manipulate, if care is not taken to minimize air exposure.
Shipping Instructions	Ambient

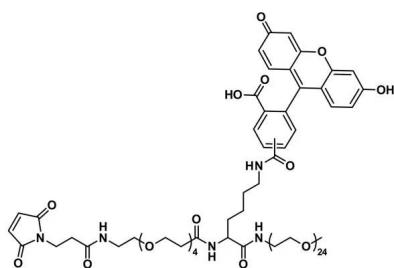
For research use only. Not intended for therapeutic or diagnostic use in animals or humans.



DOCUMENTS

- [Safety Data Sheet](#)
- [Datasheet](#)

GALLERY IMAGES



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