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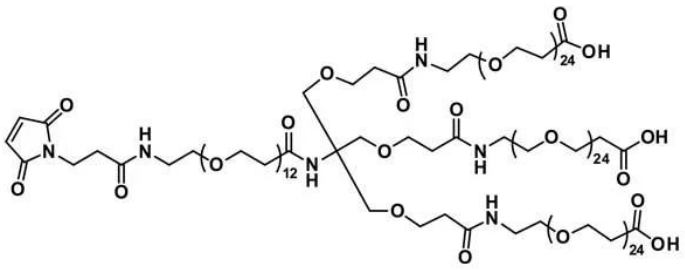
MAL-DPEG®12-TRIS(-DPEG®24-ACID)3

SKU: QBD-11451



DESCRIPTION

MAL-dPEG®12-Tris(-dPEG®24-acid)3, product number QBD-11451, is a thiol- and amine-reactive, four-arm, monodispersed PEG with one arm shorter than the other three. MAL-dPEG®12-Tris(-dPEG®24-acid)3 is a monodispersed branched PEG compound built around a tris core. From the maleimide olefin to carbonyl carbon immediately before the tris core is 46 atoms. From the tris core to the carbonyl carbon on each branch is 83 atoms. The total linker length is 129 atoms. The maleimido group that terminates the short arm of this product reacts with sulfhydryl groups to form thioether bonds. It conjugates directly to target biomolecules.

This product is useful for charge modulation and elimination of renal clearance in drug delivery and imaging applications, among others. The dPEG® spacer length is from the maleimide olefin to the carbonyl carbon on each of the three long arms. The terminal carboxylic acid groups can be modified with various functional or reactive groups (e.g., NHS, TFP esters) or used as-is for charge modulation. In a peer-reviewed scientific publication, this product was shown to alter the biodistribution of the conjugate when used as a charge modulator on the antibody CC49, leading to improved microPET/CT imaging in mice.

SPECIFICATIONS

CAS Number	N/A
Molecular Weight	4473.17; single compound;

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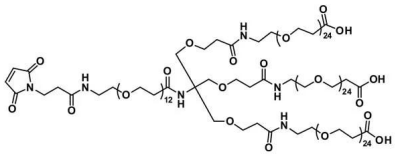
Chemical Formula	$C_{200}H_{384}N_6O_{100}$
Purity	> 95%
Unit Size	25 mg, 100 mg
Solubility	Methylene chloride, DMAC or DMSO, water or Acetonitrile.
Spacers	dPEG® Spacer is 130 atoms and 102.4 Å, avg.
Storage Instructions	-20°C; Always let come to room temperature before opening; be careful to limit 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

DOCUMENTS

- Safety Data Sheet
- Datasheet

GALLERY IMAGES



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