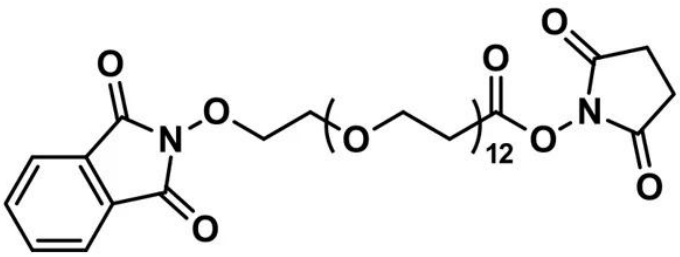
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

PHTHALIMIDOOXY-DPEG®$_{12}$-NHS ESTER

SKU: QBD-11135



DESCRIPTION

Phthalimidooxy-dPEG®12-NHS ester, product number QBD-10011, is a protected aminooxy compound linked to an amine-reactive N-hydroxysuccinimidyl (NHS) ester through a medium-length (41 atoms, 46.3 Å), single molecular weight, discrete polyethylene glycol (dPEG®) spacer. This allows a hydrophilic, protected aminooxy group to be installed on peptides, proteins, small molecules, and amine-functionalized surfaces.

The phthaloyl moiety on phthalimidooxy-dPEG®4-NHS ester stably protects the aminooxy group. Following amide bond formation, the phthalimide group can be removed using aqueous hydrazine or hydroxylamine, leaving the aminooxy group free to react. Oxime bonds form from the reaction between an aminooxy group and an aldehyde (creating an aldoxime bond) or ketone (creating a ketoxime bond). Compared to hydrazone bonds, oxime bonds are exceptionally stable. They do not break under physiological or even slightly acidic conditions that can occur under some physiological states.

The amine-reactive NHS ester has optimal reactivity in the pH range of 7.0 – 7.4. This group should be reacted first as the subsequent deprotection step for the aminooxy group will also react with the NHS ester.

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

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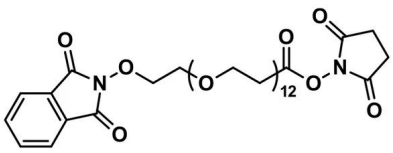
SPECIFICATIONS

CAS Number	N/A
Molecular Weight	860.90; single compound
Chemical Formula	$C_{39}H_{60}N_2O_{19}$
Purity	> 97%
Unit Size	100mg, 1000mg
Solubility	Methylene chloride or Acetonitrile.
Spacers	dPEG® Spacer is 41 atoms and 46.3 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

DOCUMENTS

- Safety Data Sheet
- Datasheet

GALLERY IMAGES



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