Product Data Sheet

Product Name: PEG-NHS-ester-NHS
Cat. No.: GB40317

Chemical Properties

Cas. No.	
Formula	M.Wt
Solubility	Storage
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
Structure	

Background

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N-hydroxylsuccinimide (NHS) functionalized polyethylene glycol (PEG-NHS) is an amino (-NH2) reactive PEG derivative that can be used to modify protein, Peptide or any other surfaces with their available amino groups. NHS Esters react with primary amine groups at pH 7 to 8.5 to form stable amide bonds.Compared to other PEG NHS ester derivatives, our succinimidyl carbonate (SC) functionalized mPEG-NHS offers superior reactivity and higher stability in aqueous solution. NHS esters react with deprotonated primary amines, therefore, the reaction requires neutral to basic pH values to proceed. Primary amines react with NHS esters by nucleophilic attack and NHS is released as a byproduct. Hydrolysis of the NHS-ester competes with the reaction in aqueous solution and increases with increasing pH.

Caution: Product has not been fully validated for medical applications. For research use only.
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