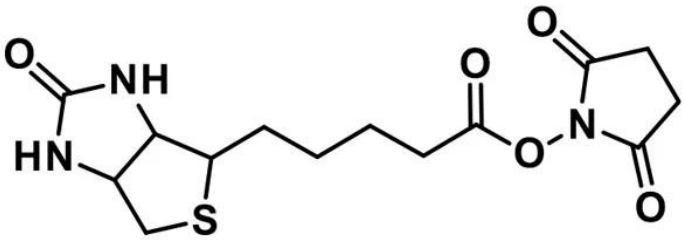
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

NHS-BIOTIN

SKU: QBD-10205



DESCRIPTION

NHS-biotin, product number QBD-10205, is a classic, non-dPEG® biotinylation reagent. Biotin (5-((3aS,4S,6aR)-2-oxohexahydro-1H-thieno[3,4-d]imidazol-4-yl)pentanoic acid, CAS number 58-85-5) is a water-soluble vitamin, though it is not especially soluble in water and is used in a wide range of biotechnology and clinical applications. NHS-biotin (2,5-dioxopyrrolidin-1-yl 5-((3aS,4S,6aR)-2-oxohexahydro-1H-thieno[3,4-d]imidazol-4-yl)pentanoate, CAS number 35013-72-0) is the N-hydroxysuccinimide ester of biotin. The NHS ester is reactive with free primary amines. It is useful for labeling proteins, peptides, surfaces (such as silica, glass, or magnetic particles) coated with primary amines, and the like. It can also be used with amine-terminated dPEG® products to create novel biotinylated dPEG® products.

NHS-biotin, QBD-10205, is insoluble in water, but the NHS ester hydrolyzes if the product gets wet. The optimal storage temperature of NHS-biotin is -20°C. When removed from storage, NHS-biotin should be allowed to equilibrate fully to ambient temperature before opening the bottle. The product should always be handled to minimize exposure to moisture. NHS-biotin dissolves in N,N’-dimethylacetamide (DMAC) or dimethylsulfoxide (DMSO). DMAC and DMSO must be dried over 3Å molecular sieves for at least 24 hours before use. Solutions of NHS-biotin should be used immediately. Storing NHS-biotin in solution is not recommended.

SPECIFICATIONS

CAS Number	35013-72-0

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

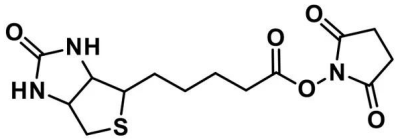
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Molecular Weight	341.38; single compound
Chemical Formula	$C_{14}H_{19}N_3O_5S$
Purity	> 97%
Unit Size	100 mg, 1000 mg
Solubility	DMAC or DMSO, difficult to get into solution.
Storage Instructions	-20°C; Always let come to room temperature before opening; 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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