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Certificate of Analysis

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Batch No.: 2

Catalog No.: 7302

Product Name: Sulfo-NHS-LC-Biotin

CAS Number: 191671-46-2

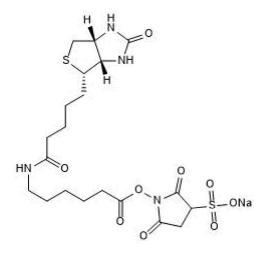
IUPAC Name: Sodium 2,5-dioxo-1-((6-(5-((3a*S*,4*S*,6a*R*)-2-oxohexahydro-1*H*-thieno[3,4-*d*]imidazol-4-yl)pentanamido)hexanoyl) oxy)pyrrolidine-3-sulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: $C_{20}H_{29}N_4NaO_9S_2.1\frac{1}{2}H_2O$ 583.6 White solid water to 100 mM DMSO to 100 mM Store at -20°C

Storage:

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Mass Spectrum: Microanalysis:

Consistent with structure						
Consistent with structure						
Carbon Hydrogen Nitrogen						
Theoretical	41.16	5.53	9.6			
Found	40.59	5.17	9.37			

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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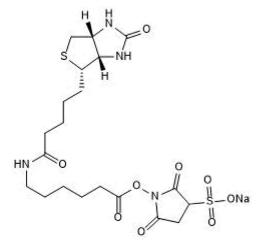
Description:

Sulfo-NHS-LC-Biotin is a water-soluble amine reactive biotinylation reagent used to attach biotin to primary amines. Commonly used to label proteins and antibodies. Does not penetrate membrane. Reactive in pH 7.0-9.0, solubility 10 mg/mL in water and DMF.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₀H₂₉N₄NaO₉S₂.1½H₂O Batch Molecular Weight: 583.6 Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Catalog No.: 7302

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Karunakaran *et al* (2020) Butyrophilin-2A1 directly binds germline-encoded regions of the Vγ9Vδ2 TCR and is essential for phosphoantigen sensing. Immunity **52** 487. PMID: 32155411.

Xu and Wegner (2020) Multifunctional streptavidin-biotin conjugates with precise stoichiometries. Chem.Sci. 11 4422.

Takayama *et al* (2017) Long-term drug modification to the surface of mesenchymal stem cells by the avidin-biotin complex method. Sci.Rep **7** 16953. PMID: 29208980.

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