bio-techne
TOCRIS

Print Date: Apr 5th 2023

Certificate of Analysis

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Product Name: **Disulfide biotin azide** **Catalog No.: 7768** **Batch No.: 1**

CAS Number: 2866429-93-6

IUPAC Name: *N*-(24-Azido-12,20-dioxo-3,6,9-trioxa-16,17-dithia-13,21-diazatetracosyl)-5-((3a*S*,4*S*,6a*R*)-2-oxohexahydro-1*H*-thieno[3,4-*d*]imidazol-4-yl)pentanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{27}H_{48}N_8O_7S_3$

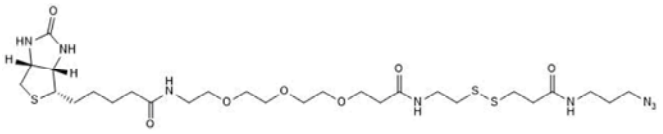
Batch Molecular Weight: 692.91

Physical Appearance: Colourless crystalline solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 96% purity

Mass Spectrum: Consistent with structure

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Description:

Disulfide Biotin Azide is an azide-activated cleavable (disulphide) biotin probe. It allows the biotinylation of molecules containing alkyne moiety via copper-catalyzed click chemistry reactions.

Physical and Chemical Properties:

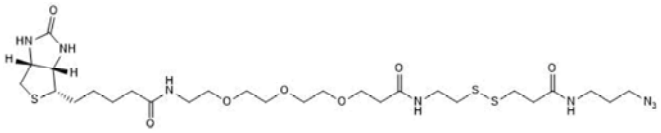
Batch Molecular Formula: $C_{27}H_{48}N_8O_7S_3$

Batch Molecular Weight: 692.91

Physical Appearance: Colourless crystalline solid

Minimum Purity: ≥90%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 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).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

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:

Chen *et al* (2020) Design, optimization, and study of small molecules that target Tau pre-mRNA and affect splicing. J.Am.Chem.Soc. ***142*** 8706. PMID: 32364710.

Eisen *et al* (2020) MicroRNAs cause accelerated decay of short-tailed target mRNAs. Mol.Cell ***77*** 775. PMID: 31902668.