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**Product Data Sheet**


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Product Name: Alkynyl-biotin

Cat. No.: GC18562

**Chemical Properties**

Cas. No. 1011268-28-2

Chemical Name (3aS,4S,6aR)-hexahydro-2-oxo-N-[2-[2-[2-[(1-oxo-5-hexyn-1-yl)amino]ethoxy]ethoxy]ethyl]-1H-thieno[3,4-d]imidazole-4-pentanamide

SMILES O=C1N[C@]2([H])[C@H](CCCC(NCCOCCOCCNC(CCCC#C)=O)=O)SC[C@]2([H])N1

Formula	C <sub>22</sub> H <sub>36</sub> N <sub>4</sub> O <sub>5</sub> S	M.Wt	468.6
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Solubility	DMF: 20 mg/mL, DMSO: 20 mg/mL, DMSO:PBS (pH 7.2) (1:1): 0.5 mg/ml	Storage	Store at -20°C
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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**

Alkynyl-biotin is a form of biotin with a terminal alkyne group separated by two polyethylene glycol moieties. It is used to add biotin to other molecules bearing an azide group using a copper Cu(I)-catalyzed azide-alkyne cycloaddition reaction. Alkynyl-biotin has been used to add a biotin tag to a range of biochemicals, amino acids, proteins, and nucleotides that have been modified by the addition of an azide group. Alkynyl-biotin can also be used to capture sulfenic acid-modified proteins that have been tagged with the cell-permeable probe DAz-2 .

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

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