# RedChemExpress

## Certificate of Analysis

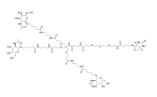
## tri-GalNAc biotin

Cat. No.:	HY-147102
Batch No.:	253308
Chemical Name:	(R,R,R,R,R)-N,N'-(10-((3-((3-((2-((2R,3R,4R,5R,6R)-3-Acetamido-4,5-dihydroxy-6-(hydroxymethyl)t
	etrahydro-2H-pyran-2-yl)oxy)pentanamido)propyl)amino)-3-oxopropoxy)methyl)-10-(5,18-diox
	o-22-((3aS,4S,6aR)-2-oxohexahydro-1H-thieno[3,4-d]imidazol-4-yl)-8,11,14-trioxa-4,17-diazadoc
	osanamido)-5,15-dioxo-8,12-dioxa-4,16-diazanonadecane-1,19-diyl)bis(5-(((2R,3R,4R,5R,6R)-3-a
	cetamido-4,5-dihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)pentanamide)

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	C <sub>83</sub> H <sub>146</sub> N <sub>14</sub> O <sub>34</sub> S	5	
Molecular Weight:	1916.19		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

**Chemical Structure:** 



### ANALYTICAL DATA

Appearance:	White to off-white (Solid)
<sup>1</sup> H NMR Spectrum:	Consistent with structure
LCMS:	Consistent with structure
Purity (LCMS):	99.40%
Conclusion:	The product has been tested and complies with the given specifications.

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

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