

Certificate of Analysis

Product Name	LLO (91-99) (Listeriolysin O (91-99))
Catalog No.	V53012
Batch No.	V5301201

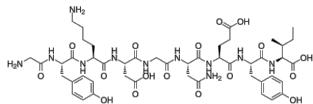
1. Physical and Chemical Properties

Appearance	powder
Molecular Formula	C47H67N11O17
Molecular Weight	1058.10
Purity	=99.04%
CAS No.	137856-41-8
Production Date	2024-01-10

2. Analytical Data

HPLC	Indicates =99.04% purity
NMR	Consistent with structure
Mass Spectrum	Consistent with structure

3. Structure



4. Storage Condition

Storage Condition	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month
Note: Please store this product in a sealed and protected environment (e.g. under nitrogen), avoid exposure to moisture and light.			

Products are for research use only • Not for human or veterinary use

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