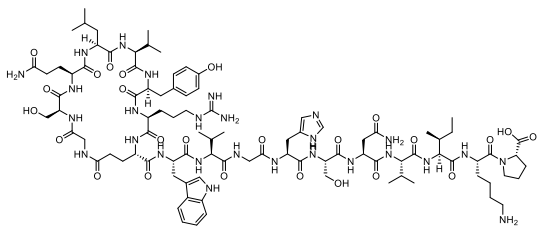


Product data sheet



MedKoo Cat#: 574128 Name: Lariat A CAS: 732286-09-8 Chemical Formula: C ₉₄ H ₁₄₃ N ₂₇ O ₂₅ Exact Mass: 2050.0748 Molecular Weight: 2051.342		
Product supplied as:	Powder	
Purity (by HPLC):	≥ 98%	
Shipping conditions	Ambient temperature	
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

1. Product description:

Lariat A is an antimycobacterial lasso peptide active against *M. tuberculosis* and *M. smegmatis*. Lariat A increases survival in a silkworm model of *M. smegmatis* infection.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
TBD	TBD	TBD

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	0.49 mL	2.44 mL	4.87 mL
5 mM	0.10 mL	0.49 mL	0.97 mL
10 mM	0.05 mL	0.24 mL	0.49 mL
50 mM	0.01 mL	0.05 mL	0.10 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

1. Iwatsuki M, Uchida R, Takakusagi Y, Matsumoto A, Jiang CL, Takahashi Y, Arai M, Kobayashi S, Matsumoto M, Inokoshi J, Tomoda H, Omura S. Lariatins, novel anti-mycobacterial peptides with a lasso structure, produced by *Rhodococcus jostii* K01-B0171. *J Antibiot* (Tokyo). 2007 Jun;60(6):357-63. doi: 10.1038/ja.2007.48. PMID: 17617692.

In vivo study

TBD

7. Bioactivity

Biological target:

An antimycobacterial peptide.

In vitro activity

Furthermore, lariat A inhibited the growth of *Mycobacterium tuberculosis* with an MIC of 0.39 microg/ml in liquid microdilution method.

Reference: *J Antibiot* (Tokyo). 2007 Jun;60(6):357-63. <https://pubmed.ncbi.nlm.nih.gov/17617692/>

Product data sheet



In vivo activity

TBD

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.