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## CERTIFICATE OF ANALYSIS

Analysis Date: Jan 2024

Re-test Date: Dec 2026

**Product Name: Bivalirudin (In House Standard)**

### Identification:

Chemical Name: (S)-4-((S)-2-((S)-2-(2-((S)-2-(2-(2-(2-((S)-1-(D-Phenylalanyl-L-prolyl-L-arginyl)pyrrolidine-2-carboxamido)acetamido)acetamido)acetamido)acetamido)-4-amino-4-oxobutanamido)acetamido)-3-carboxypropanamido)-3-phenylpropanamido)-5-(((S)-4-carboxy-1-(((2S,3S)-1-((S)-2-((S)-4-carboxy-1-(((S)-4-carboxy-1-(((S)-1-(((S)-1-carboxy-3-methylbutyl)amino)-3-(4-hydroxyphenyl)-1-oxopropan-2-yl)amino)-1-oxobutan-2-yl)amino)-1-oxobutan-2-yl)carbamoyl)pyrrolidin-1-yl)-3-methyl-1-oxopentan-2-yl)amino)-1-oxobutan-2-yl)amino)-5-oxopentanoic acid

Synonyms : NA

CAS Number : 128270-60-0

CAT Number : CP-B103001

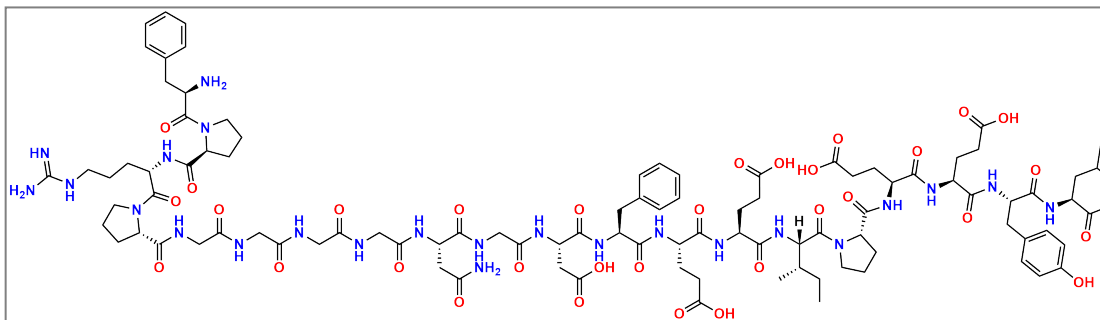
Molecular Formula : C98H138N24O33

Molecular Weight : 2180.32

Batch Number : CP-BIV-IN-1223

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



### Analytical Information:

Sr. No.	Test	Result
1)	Description	White to off-white Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	99.91%
5)	H1NMR	Confirm to structure
6)	13CNMR	Confirm to structure



**Prepared and Reviewed By**

A handwritten signature in blue ink, appearing to read "Priyanka Salunkhe".

Ms Priyanka Salunkhe  
(Manager QC Analytical)

**Approved By**

A handwritten signature in blue ink, appearing to read "Rohini Gagare".

Ms Rohini Gagare  
(QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.