



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

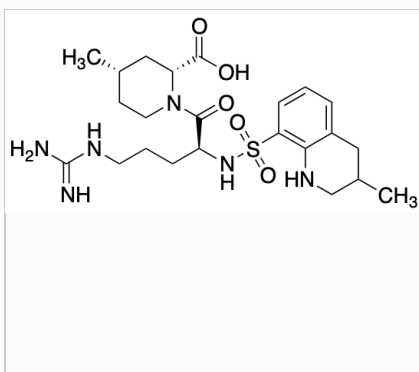
Catalogue Number: A189265

CAS Number: 189264-04-8

Product: (2R, 4S)-1-(2S)-Argatroban

Synonym: (2R,4S)-1-((2S)-5-Guanidino-2-(3-methyl-1,2,3,4-tetrahydroquinoline-8-sulfonamido)pentanoyl)-4-methylpiperidine-2-carboxylic Acid; Argatroban (L,2R,4S)-Isomer (Mixture of Diastereomers); [2R-[1(2S*),2a,4a]]-[Partial]-1-[5-[(aminoiminomethyl)amino]-1-oxo-2-[(1,2,3,4-tetrahydro-3-methyl-8-quinoliny)sulfonyl]amino]pentyl]-4-methyl-2-piperidinecarboxylic Acid

Structure:



Molecular Formula:

C₂₃H₃₆N₆O₅S

Molecular weight:

508.63

Source of Product:

N/A

Solubility:

DMSO (Slightly), Methanol (Slightly)

Lot Number: 711659164-2-1

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

| Tests: | Specifications: | Results: |
|--------------------|--------------------------|--------------------------------|
| Appearance | White to Off-White Solid | White Solid |
| Elemental Analysis | Conforms | %C: 52.12, %H: 7.39, %N: 16.38 |
| HPLC Purity | Report Result | 99.47% (215 nm) |
| MS | Conforms to Structure | Conforms |
| NMR | Conforms to Structure | Conforms |

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

| Reviewed By | Reviewed By | C of A Approved By | Test Date | Retest Date |
|---|---|---|-----------|-------------|
| Henry Tieu | Toni Rantanen | Christina Gouliaras | 9/27/2022 | 9/25/2026 |
|  |  |  | | |