



## CERTIFICATE OF ANALYSIS

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### 1. Identification

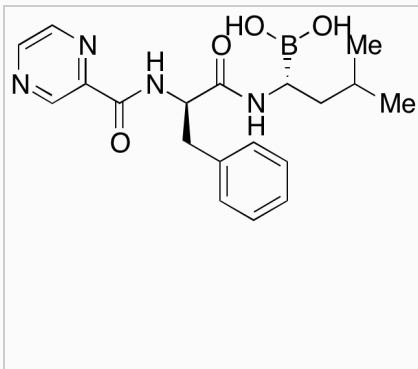
**Catalogue Number:** B675705

**CAS Number:** 1132709-15-9

**Product:** (1R,2R)-Bortezomib (>85%)

**Synonym:** B-[(1R)-3-Methyl-1-[[[(2R)-1-oxo-3-phenyl-2-[(2-pyrazinylcarbonyl)amino]propyl]amino]butyl]boronic Acid;

**Structure:**



**Molecular Formula:**

C<sub>19</sub>H<sub>25</sub>BN<sub>4</sub>O<sub>4</sub>

**Molecular weight:**

384.24

**Source of Product:**

N/A

**Solubility:**

DMSO (Slightly), Methanol (Very Slightly)

**Lot Number:** 2023-JPO-485

**Purity:** >85%

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

**Storage Condition:** -20°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
HPLC Purity	Report Result	90.66% (210 nm)
MS	Conforms to Structure	Conforms
Specific Rotation	Report Result	-13.0° (c = 0.1, Methanol)
Elemental Analysis	Conforms	%C: 62.04, %H: 6.20, %N: 15.06

**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  $\pm 2\%$ . 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**

Henry Tieu

**Reviewed By**

Toni Rantanen

**C of A Approved By**

Chanell Chu

**Test Date**

1/4/2024

**Retest Date**

1/2/2028