



# CERTIFICATE OF ANALYSIS

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## 1. Identification

**CAS Number:**

242143-80-2

**Catalogue Number:**

TRC-T003505

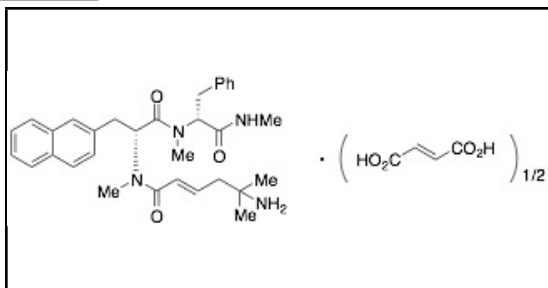
**Product:**

Tabimorelin Hemifumarate

**Synonyms:**

N-[(2E)-5-Amino-5-methyl-1-oxo-2-hexen-1-yl]-N-methyl-3-(2-naphthalenyl)-D-alanyl-N,N $\alpha$ -Dimethyl-D-phenylalaninamide Hemifumarate; NN 703 Hemifumarate; NNC 26-0703 Hemifumarate;

**Structure:**



**Molecular Formula:**

C<sub>32</sub>H<sub>40</sub>N<sub>4</sub>O<sub>3</sub> · 1/2 C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

**Molecular Weight:**

528.70 + 0.5(116.07)

**Source of Product:**

Synthetic

## 2. Analytical Information

**Lot Number:**

2-EVK-41-1

**Atmosphere:**

Air

**Melting Point:**

>190°C (dec.)

**Solubility**

DMSO (Slightly), Methanol (Very Slightly)

**Appearance of Product:**

White Solid

**Stability**

Not Determined

**Method for Determining Identity:**

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>) and MS

**Long Term Storage Condition:**

4°C

**Purity:**

98%

**Shipping Condition**

This Product Is Stable To Be Shipped At Room Temperature

98.91% by HPLC

**Additional Information:**

TLC Conditions: SiO<sub>2</sub>; Dichloromethane : Methanol : Ammonium Hydroxide = 9 : 1 : 0.1; Visualized with UV, AMCS, and KMnO<sub>4</sub>; Single Spot, R<sub>f</sub> = 0.35.

<sup>1</sup>H NMR and MS conform to structure.

Elemental Analysis: (Found) %C: 69.16, %H: 7.42, %N: 9.46; (Calculated) %C: 69.60, %H: 7.22, %N: 9.55

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.

Philip Chan, Head of Quality Assurance

**QC Test Date**

January 23, 2018

**Retest Date**

January 21, 2022