## **Certificate of Analysis**

## PNU-159682 carboxylic acid

**Cat. No.:** HY-126666 **CAS No.:** 1204819-92-0

Batch No.: 266212

Chemical Name: 2-Naphthacenecarboxylic acid, 1,2,3,4,6,11-hexahydro-2,5,12-trihydroxy-7-methoxy-4-[[(1S,3R,4

aS,9S,9aR,10aS)-octahydro-9-methoxy-1-methyl-1H-pyrano[4',3':4,5]oxazolo[2,3-c][1,4]oxazin-3

-yl]oxy]-6,11-dioxo-, (2S,4S)-

## PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:  $C_{31}H_{33}NO_{13}$  Molecular Weight: 627.59

Storage: -20°C, protect from light, stored under nitrogen

\* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)

**Chemical Structure:** 

## **ANALYTICAL DATA**

Appearance: Brown to red (Solid)

<sup>1</sup>H NMR Spectrum: Consistent with structure LCMS: Consistent with structure

Purity (HPLC): 92.02%

**Conclusion:** The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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