## **Certificate of Analysis**



## **Product Identification**

**Chemical Structure** 

HB0880 Catalog number Compound name Tunicamycin Source Streptomyces sp.

Batch number E0876-1-1 Batch molecular formula A:C<sub>37</sub>H<sub>60</sub>N<sub>4</sub>O<sub>16</sub> (n=8)  $B:C_{38}H_{62}N_4O_{16}$  (n=9)

 $C:C_{39}H_{64}N_4O_{16}$  (n=10)  $D{:}C_{40}H_{66}N_4O_{16}\ (n{=}11)$ 

Batch molecular weight 816.9

HPLC

830.93 844.95 858.99

**QC Result** Method QC requirement Reverse Phase HPLC shows >98% as a mixture of 4

1H NMR in DMSO at 400 MHz consistent with NMR

isomers structure

Mass spectrum Electrospray positive analysis consistent with structure

Microanalysis Elemental analysis is within 0.4% for the batch

molecular formula

TLC TLC analysis in  $BuOH/H_2O/AcOH$  shows one spot

under KMnO4

Physical appearance Off-white solid

Solubility Soluble in DMSO (50 mM) Meets specification: 5.97%, 42.19%, 39.56%,

Meets specification

Meets specification

Meets specification

Meets specification: R<sub>f</sub>=0.3

Meets specification: Off-white solid

Meets specification

Produced by Signature

Passed by

Signature Date

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This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.