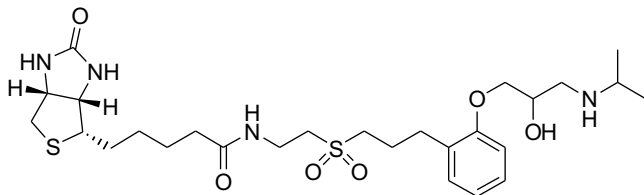


Certificate of Analysis

Description of the Material:

- (a) Product Number: CM61002
- (b) Chemical Name: Biotin-Alprenolol Conjugate
- (c) Chemical Structure:



$C_{27}H_{44}N_4O_6S_2$
 Exact Mass: 584.27
 Mol. Wt.: 584.79

- (d) Molecular Weight: 584.79 Da
- (e) Appearance: off-white solid or oil film
- (f) Lot No.: CM0290811-A57
- (g) Amount: 1 mg

Purity Specifications and Results:

Tests	Specification(s)	Results
Amount	1 mg	1 mg
HPLC	≥95% by standard C18 HPLC	99.1%
Mass	584.79	Observed: 585.70 (M+H ⁺)

Intended use: For research and development use only.

Hazard information: Hazard information of this compound is unknown and should be handled with proper care.

Shelf life, Storage / Stability as supplied: The compound is very stable at RT. Shelf life of this compound is not determined and should be stored at -20°C for prolonged storage. Allow the product to warm to room temperature before opening.

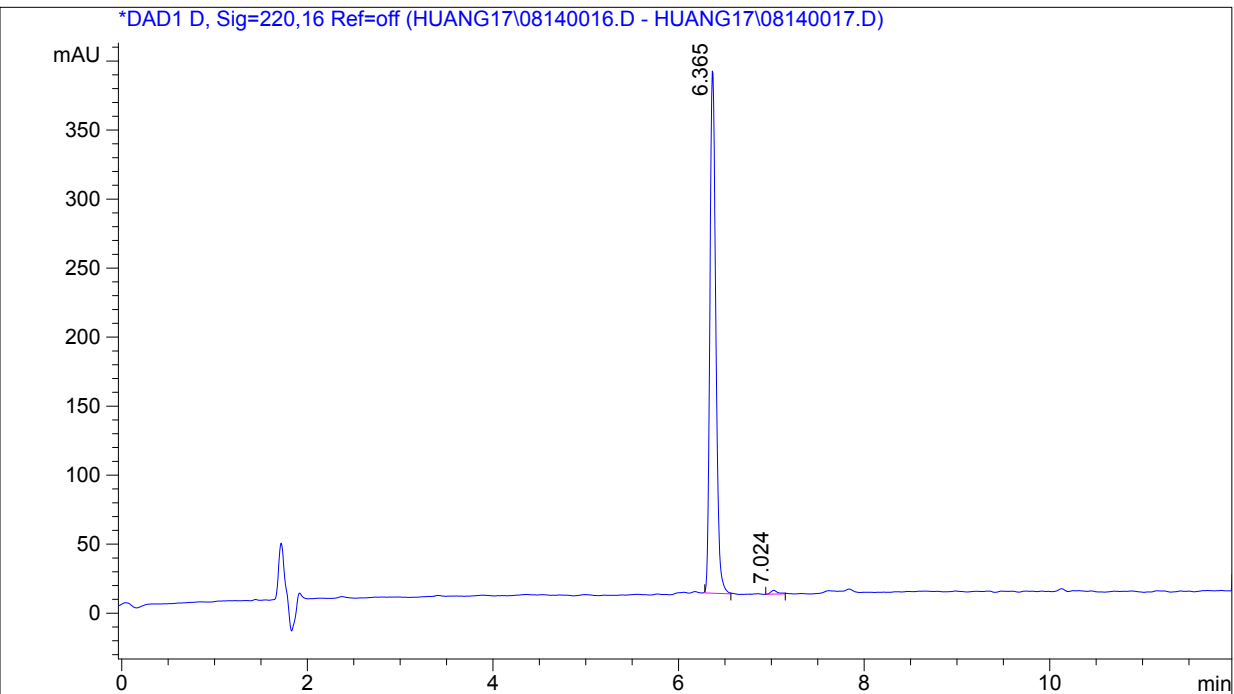
Date of packaging: Aug. 28, 2017

Date of retest: Aug. 28, 2022

Data included: HPLC

Data File name: C:\HPCHEM\1\DATA\HUANG17\08140016.D
Method name: TFALSC6E.M
Injection Time: 2:19:53 PM
Injection Date: 8/14/2017

CellMosaic, Inc. Injection Volume: 10.000
Instrument 1 Sequence Name:
Data Acquired By: CellMosaic QA Pressure (bar) : 138.140
Location: Vial 13 Flow (mL/min) : 1.000
Sample Name: cm0290811a57 Temp (C) : 25.010



#	Meas.RT	Main Peak Area	Main Peak Area %	Main Peak Height
1	6.365	1677.692	99.110	380.170
2	7.024	15.063	0.890	2.751

Total