

Supporting Information for

Short communication

Facile synthesis of insulin fusion derivatives through sortase A ligation

Maria M. Disotuar^a, Jake A. Smith^a, Jinze Li^a, Steve Alam^a, Nai-Pin Lin^{a,b}, Danny Hung-Chieh Chou^{a,b,*}

^a*Department of Biochemistry, School of Medicine, University of Utah, Salt Lake City, UT 84112, USA*

^b*Division of Endocrinology and Diabetes, Department of Pediatrics, School of Medicine, Stanford University, Palo Alto, CA 94305, USA*

*Corresponding author. Tel. +1 650 724 6080, fax: +1 650 725 8375.

E-mail address: dannychou@stanford.edu (Danny Hung-Chieh Chou).

Received 6 October 2020; received in revised form 29 October 2020; accepted 12 November 2020

Table of contents

Table S1 Mass spectrometry for the insulin fusion derivatives.	2
Figure S1 LC-chromatogram (top) and MS-spectrum (bottom) for DOI.	2
Figure S2 LC-chromatogram (top) and MS-spectrum (bottom) for GFFYLPETGGG.	3
Figure S3 LC-chromatogram (top) and MS-spectrum (bottom) for Ins-SA.	3
Figure S4 LC-chromatogram (top) and MS-spectrum (bottom) for Ins-SA-NBDX.....	4
Figure S5 LC-chromatogram (top) and MS-spectrum (bottom) for Ins-SA-Alb.....	4

Table S1 Mass spectrometry for the insulin fusion derivatives.

Insulin fusion derivative	Calculated mass (Da)	Found mass (Da)	Method
DOI	4866	1216 [M/4 + H]	ESI
GFFYLPETGGG	1144	1145 [M + H]	ESI
Ins-SA	5992	1498 [M/4]	ESI
Ins-SA-NBDX	6392	1599 [M/4 + H]	ESI
Ins-SA-Alb	8149	1358 [M/6 +H]	ESI

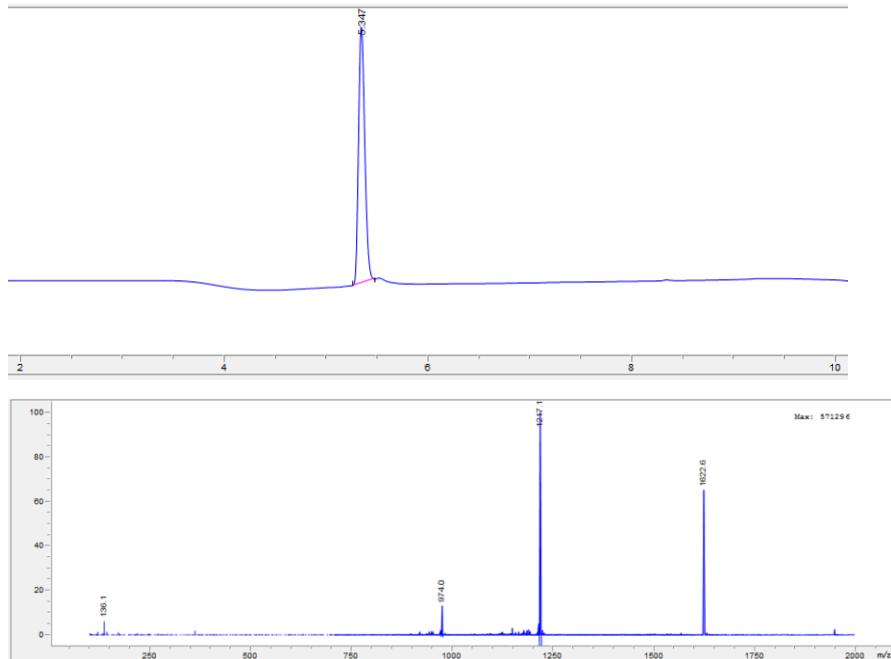


Figure S1 LC-chromatogram (top) and MS-spectrum (bottom) for DOI.

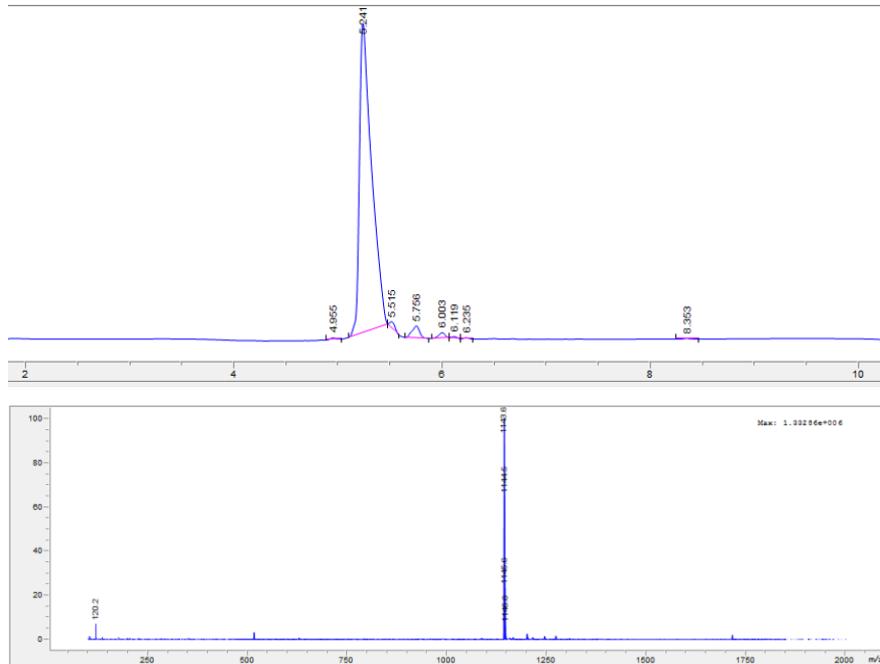


Figure S2 LC-chromatogram (top) and MS-spectrum (bottom) for GFFYLPETGGG.

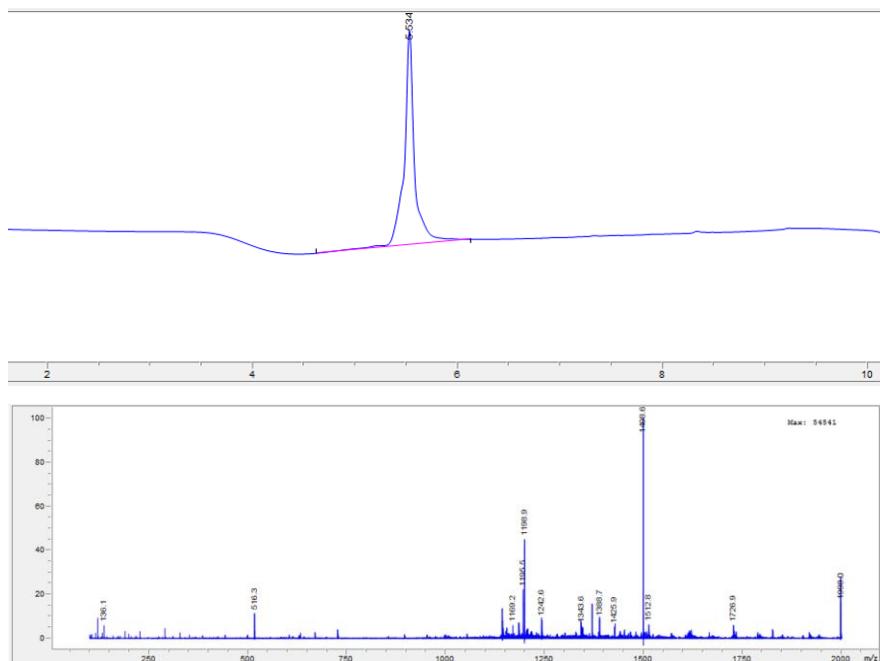


Figure S3 LC-chromatogram (top) and MS-spectrum (bottom) for Ins-SA.

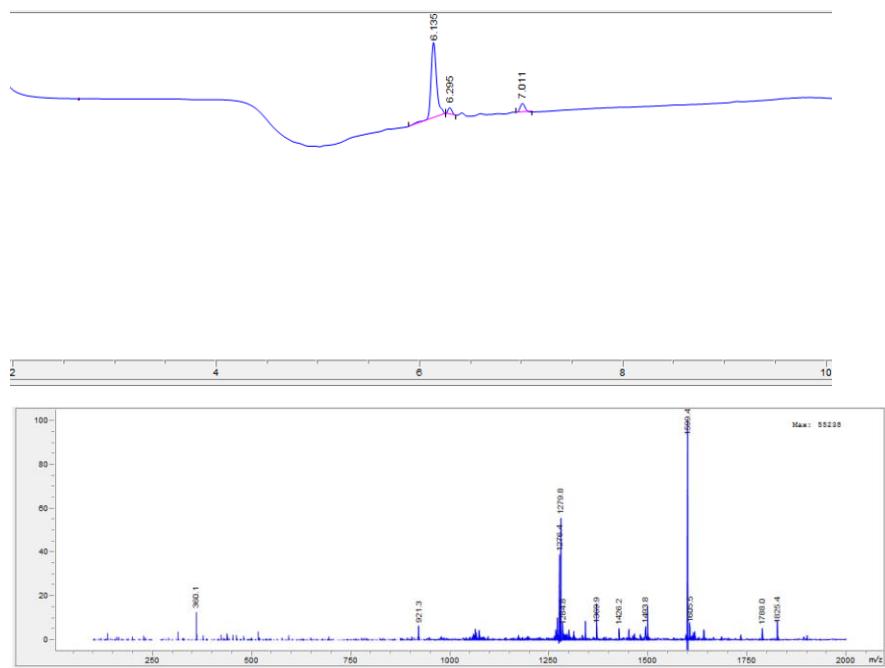


Figure S4 LC-chromatogram (top) and MS-spectrum (bottom) for Ins-SA-NBDX.

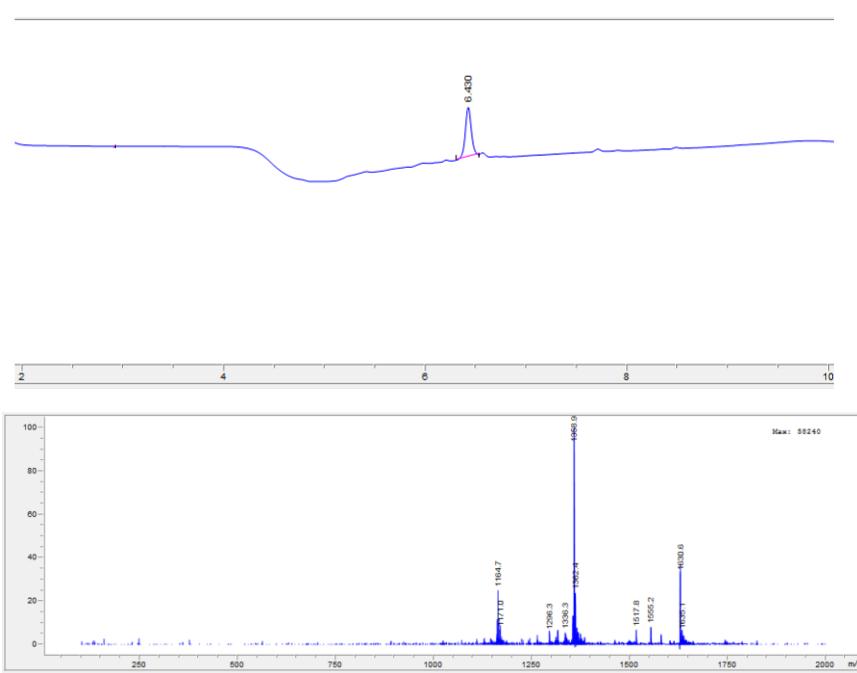


Figure S5 LC-chromatogram (top) and MS-spectrum (bottom) for Ins-SA-Alb.