

## Dasiglucagon

Cat. No.:	HY-P3469
CAS No.:	1544300-84-6
Molecular Formula:	C <sub>152</sub> H <sub>222</sub> N <sub>38</sub> O <sub>50</sub>
Molecular Weight:	3381.62
Sequence:	His-Ser-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Lys-Tyr-Leu-Asp-{Aib}-Ala-Arg-Ala-Glu-Glu-Phe-Val-Lys-Trp-Leu-Glu-Ser-Thr
Sequence Shortening:	HSQGTFTSDYSKYLD{Aib}ARAEFVKWLEST
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Dasiglucagon is a human glucagon analog, and can increase plasma glucose. Dasiglucagon can be used in hypoglycemia research <sup>[1][2][3]</sup> .			
<b>In Vivo</b>	Dasiglucagon PK profile shows a dose-dependent and rapid increase in plasma levels <sup>[2]</sup> .			
	Dasiglucagon dose			
	0.1 mg	0.3 mg	0.6 mg	1.0 mg
N	5	16	16	16
AUC <sub>0-30min</sub> (pmol*h/L)	99.4 (32.0)	302 (78.9)	444 (163)	884 (307)
AUC <sub>0-360min</sub> (pmol*h/L)	451 (123)	1360 (166)	1630 (368)	4800 (697)
AUC <sub>0-inf</sub> (pmol*h/L)	451 (123)	1360 (166)	2640 (365)	4810 (696)
C <sub>max</sub> (pmol/L)	334 (113)	976 (208)	1570 (445)	2800 (767)
t <sub>max</sub> (h)	0.50 (0.5-0.6)	0.63 (0.3-0.8)	0.58 (0.5-1.7)	0.63 (0.3-0.8)
t <sub>1/2</sub> (h)	0.43 (0.07)	0.43 (0.07)	0.49 (0.14)	0.54 (0.17)
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

### REFERENCES

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[1]. Bo Xu, et al. Dasiglucagon: an effective medicine for severe hypoglycemia. Eur J Clin Pharmacol. 2021 Dec;77(12):1783-1790.

[2]. Ulrike Hövelmann, et al. Pharmacokinetic and Pharmacodynamic Characteristics of Dasiglucagon, a Novel Soluble and Stable Glucagon Analog. Diabetes Care. 2018 Mar;41(3):531-537.

[3]. Yongjing Ju, et al. Dasiglucagon for treating severe hypoglycemia in patients with diabetes. Expert Rev Clin Pharmacol. 2022 Jul;15(7):799-803.

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

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