

## Dasiglucagon acetate

<b>Cat. No.:</b>	HY-P3469A	
<b>Molecular Formula:</b>	C <sub>154</sub> H <sub>226</sub> N <sub>38</sub> O <sub>52</sub>	
<b>Molecular Weight:</b>	3441.67	
<b>Sequence Shortening:</b>	HSQGTFTSDYSKYLD{Aib}ARAEFVKWLEST (acetate)	HSQGTFTSDYSKYLD(Aib)ARAEFVKWLEST (acetate)
<b>Target:</b>	Others	
<b>Pathway:</b>	Others	
<b>Storage:</b>	Sealed storage, away from moisture and light, under nitrogen	
	Powder	-80°C 2 years -20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)	

### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 16.67 mg/mL (4.84 mM; ultrasonic and adjust pH to 3 with HCl)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		0.2906 mL	1.4528 mL	2.9056 mL
	5 mM		---	---	---
	10 mM		---	---	---

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Dasiglucagon acetate is a human glucagon analog, and can increase plasma glucose. Dasiglucagon can be used in hypoglycemia research<sup>[1][2][3]</sup>.

#### In Vivo

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

- [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.

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

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