## [Des-His1,Glu9] Glucagon

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Cat. No.:	HY-P3608	
CAS No.:	110121-11-4	
Molecular Formula:	$C_{_{148}}H_{_{220}}N_{_{40}}O_{_{48}}S$	
Molecular Weight:	3359.63	
Sequence Shortening:	SQGTFTSEYSKYLDSRRAQDFVQWLMNT	
Target:	GCGR	
Pathway:	GPCR/G Protein	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Description	[Des-His1,Glu9] Glucagon is a potent glucagon receptor system peptide antagonist. [Des-His1,Glu9] Glucagon enhances the glucose-stimulated release of insulin from pancreatic islet cells. [Des-His1,Glu9] Glucagon can be used to research diabetes [1].		
IC <sub>50</sub> & Target	Glucagon Receptor <sup>[1]</sup>		
In Vitro	[Des-His1,Glu9] Glucagon (1 pM-100 μM) does not activate membrane-bound adenylate cyclase up to a concentration of 2×10 <sup>-4</sup> molar in the cAMP assay on isolated rat liver membranes (from male Sprague Dawley rats) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	[Des-His1,Glu9] Glucagon (3.6-4.0 μg/kg for rabbits, 1 mg/kg for rats; i.v.; single dosage) suppresses hyperglycemic effects in rabbits and rats <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	New Zealand rabbits (2.8-3.8 kg; fasted for 18 hours) <sup>[1]</sup>	
	Dosage:	3.6-4.0 μg/kg	
	Administration:	i.v.; single dosage	
	Result:	Suppressed hyperglycemic response of glucagon.	
	Animal Model:	Male Wistar rats weighing [350-400 mg; hyperglycemia induced by i.p. injection of 65 mg/kg <u>Streptozotocin</u> (HY-13753)] <sup>[1]</sup>	
	Dosage:	1 mg/kg	
	Administration:	Intravenously administration through the tail vein; single dosage	
	Result:	Decreased blood glucose rapidly, and reduced hyperglycemic effect by 70% within 5 min.	

## REFERENCES

[1]. Unson CG, et al. Biological activities of des-His1[Glu9]glucagon amide, a glucagon antagonist. Peptides. 1989 Nov-Dec;10(6):1171-7.

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

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