

Data Sheet

Product Name:	Glucagon	
Cat. No.:	CS-5936	
CAS No.:	16941-32-5	
Molecular Formula:	C153H225N43O49S	
Molecular Weight:	3482.75	HSQGTFTSDYSKYLDSRRAQDFVQWLMNT
Target:	Glucagon Receptor	
Pathway:	GPCR/G Protein	
Solubility:	H2O : 20 mg/mL (5.74 mM; ultrasonic and adjust pH to 2 with HCl); DMSO : 50 mg/mL (14.36 mM; Need ultrasonic); H2O : < 0.1 mg/mL (insoluble)	

BIOLOGICAL ACTIVITY:

Glucagon is a peptide hormone that helps regulate the blood sugar (glucose) levels in the body. **In Vitro:** Glucagon corrects dyslipidemia, obesity, and hyperglycemia in DIO mice. When glucagon binds to the glucagon receptors, the liver cells convert the glycogen into individual glucose molecules and release them into the bloodstream, in a process known as glycogenolysis^{[1][2]}.

References:

[1]. Finan B et al. Chemical Hybridization of Glucagon and Thyroid Hormone Optimizes Therapeutic Impact for Metabolic Disease. Cell. 2016 Oct 20;167(3):843-857.

[2]. Kristensen PL et al. Impact of the TCF7L2 genotype on risk of hypoglycaemia and glucagon secretion during hypoglycaemia. Endocr Connect. 2016 Oct 10.

CAIndexNames:

L-Threonine, L-histidyl-L-seryl-L-glutaminyglycyl-L-threonyl-L-phenylalanyl-L-threonyl-L-seryl-L- α -aspartyl-L-tyrosyl-L-seryl-L-lysyl-L-tyrosyl-L-leucyl-L- α -aspartyl-L-seryl-L-arginyl-L-arginyl-L-alanyl-L-glutaminy-L- α -aspartyl-L-phenylalanyl-L-valyl-L-glutaminy-L-tryptophyl-L-leucyl-L-methionyl-L-asparaginy-

SMILES:

[HSQGTFTSDYSKYLDSRRAQDFVQWLMNT]

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

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