Insulin (human)

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Cat. No.:	HY-P0035				
CAS No.:	11061-68-0				
Molecular Formula:	$C_{257}H_{383}N_{65}O_{77}S_{6}$				
Molecular Weight:	5807.57	Insulin (human)			
Target:	Insulin Receptor				
Pathway:	Protein Tyrosine Kinase/RTK				
Storage:	Sealed storage, away from moisture and light				
	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)				

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg	
Preparing Stock Solutions		1 mM	0.1722 mL	0.8609 mL	1.7219 mL	
		5 mM				
		10 mM				
	Please refer to the solubility information to select the appropriate solvent.					

BIOLOGICAL ACTIVITY			
Description	Insulin (human) is a polypeptide hormone that regulates the level of glucose.		
In Vitro	The human insulin gene contains two intervening sequences, one is within the region transcribed into the 5'-untranslated segment of the mRNA and the other interrupts the C-peptide encoding region ^[1] . Human insulin is commonly used to treat type 2 diabetes ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

CUSTOMER VALIDATION

• Cancer Commun (Lond). 2021 Jul;41(7):576-595.

- Theranostics. 2022 Nov 7;12(18):7699-7716.
- Theranostics. 2020 Mar 26;10(10):4705-4719.
- Cardiovasc Res. 2019 Aug 1;115(10):1533-1545.
- Clin Transl Med. 2022 Jul;12(7):e989.

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REFERENCES

[1]. Bell GI, et al. Sequence of the human insulin gene. Nature. 1980 Mar 6;284(5751):26-32.

[2]. Tseng CH, et al. Prolonged use of human insulin increases breast cancer risk in Taiwanese women with type 2 diabetes. BMC Cancer. 2015 Nov 4;15:846.

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

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