

## Data Sheet

Product Name:	Insulin(human)
Cat. No.:	CS-7905
CAS No.:	11061-68-0
Molecular Formula:	C257H383N65O77S6
Molecular Weight:	5807.57
Target:	Insulin Receptor
Pathway:	Protein Tyrosine Kinase/RTK
Solubility:	H2O : 16.6 mg/mL (2.86 mM); ultrasonic and warming and adjust pH to 2-3 with HCl)

## Insulin (human)

### BIOLOGICAL ACTIVITY:

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<sup>[1]</sup>. Human insulin is commonly used to treat type 2 diabetes<sup>[2]</sup>.

### 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.

### CAIndexNames:

Insulin(human)

### SMILES:

[Insulin (human)]

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

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