

Insulin β Chain Peptide (15-23)

Cat. No.:	HY-P2511
CAS No.:	247044-67-3
Molecular Formula:	C ₄₄ H ₇₂ N ₁₂ O ₁₃ S
Molecular Weight:	1009.18
Sequence:	Leu-Tyr-Leu-Val-Cys-Gly-Glu-Arg-Gly
Sequence Shortening:	LYLVCGERG
Target:	Others
Pathway:	Others
Storage:	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)

BIOLOGICAL ACTIVITY

Description

Insulin β Chain Peptide (15-23), also known as INS, is an insulin-derived peptide recognized by islet-associated T cells. The Insulin β Chain Peptide (15-23) tetramer stained the INS-reactive CTL clone G9C8, but neither this tetramer nor the negative control tetramer (TUM) stained the splenic CD8⁺ T cells from NOD or 8.3-TCR $\alpha\beta$ transgenic NOD mice^{[1][2]}.

REFERENCES

- [1]. Amrani A, et al. Progression of autoimmune diabetes driven by avidity maturation of a T-cell population. *Nature*. 2000;406(6797):739-742.
- [2]. Takaki T, et al. Requirement for both H-2Db and H-2Kd for the induction of diabetes by the promiscuous CD8⁺ T cell clonotype AI4. *J Immunol*. 2004;173(4):2530-2541.

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

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