Proteins

Inhibitors

Product Data Sheet

VLGGGVALLRVIPALDSLTPANED



DiaPep277

Cat. No.: HY-105063 179822-83-4 CAS No.: Molecular Formula: $C_{106}H_{180}N_{28}O_{34}$

Molecular Weight: 2391

Sequence Shortening: VLGGGVALLRVIPALDSLTPANED

Target: Others Pathway: Others

Sealed storage, away from moisture and light Storage:

> -80°C Powder 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

In Vitro

DMSO: 12.5 mg/mL (5.23 mM; Need ultrasonic)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.4182 mL	2.0912 mL	4.1824 mL
	5 mM	0.0836 mL	0.4182 mL	0.8365 mL
	10 mM			

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description DiaPep277 is a 24 amino acid peptide derived from positions 437-460 in HSP60. DiaPep277 arrests the progression of β -cell

destruction in NOD mice. DiaPep277 has an immune modulatory effect on diabetogenic T cells in animal models of diabetes

[1][2]

In Vivo DiaPep277 (50 μg; i.p.; single dosage) causes strong splenic T cells responses, and strong diabetogenic clones 27, C7, and C9

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Female NOD mice (diabetes model) $^{[2]}$
Dosage:	50 μg

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Administration:	i.p.; single dosage
Result:	Caused strong splenic T cells responses, and strong diabetogenic clones 27, C7, and C9 responses.

REFERENCES

- [1]. Eldor R, et al. Immune modulation in type 1 diabetes mellitus using DiaPep277: a short review and update of recent clinical trial results. Diabetes Metab Res Rev. 2009 May;25(4):316-20.
- [2]. Elias D, et al. Vaccination against autoimmune mouse diabetes with a T-cell epitope of the human 65-kDa heat shock protein. Proc Natl Acad Sci U S A. 1991 Apr 15;88(8):3088-91.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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