

DiaPep277

Cat. No.:	HY-105063	
CAS No.:	179822-83-4	
Molecular Formula:	C ₁₀₆ H ₁₈₀ N ₂₈ O ₃₄	
Molecular Weight:	2390.73	VLGGGVALLRVIPALDSLTPANED
Sequence Shortening:	VLGGGVALLRVIPALDSLTPANED	
Target:	Others	
Pathway:	Others	
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

In Vitro

H₂O : 12.5 mg/mL (5.23 mM; Need ultrasonic)
 DMSO : 12.5 mg/mL (5.23 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.4183 mL	2.0914 mL	4.1828 mL
	5 mM	0.0837 mL	0.4183 mL	0.8366 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 μ g; i.p.; single dosage) causes strong splenic T cells responses, and strong diabetogenic clones 27, C7, and C9 responses[2].

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 μ g

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.

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

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