## DiaPep277

Cat. No.:	HY-105063	
CAS No.:	179822-83-4	
Molecular Formula:	C <sub>106</sub> H <sub>180</sub> N <sub>28</sub> O <sub>34</sub>	
Molecular Weight:	2390.73	VI GGGVALL RVIPALDSI TPANED
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

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
F		1 mM	0.4183 mL	2.0914 mL	4.1828 mL
		5 mM	0.0837 mL	0.4183 mL	0.8366 mL
		10 mM			

BIOLOGICAL ACTIV			
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 <sup>[1][2]</sup> .		
In Vivo	DiaPep277 (50 μg; i.p.; single dosage) causes strong splenic T cells responses, and strong diabetogenic clones 27, C7, responses <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Female NOD mice (diabetes model) <sup>[2]</sup>	
	Dosage:	50 μg	

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Product Data Sheet

Administration	i purinde decada
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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