

AUNP-12

Cat. No.:	HY-P1812	
CAS No.:	1353563-85-5	
Molecular Formula:	C ₁₄₂ H ₂₂₆ N ₄₀ O ₄₈	
Molecular Weight:	3261.55	SNTSESF-NH SNTSESFKFRVTQLAPKAQIKE-NH ₂
Sequence Shortening:	H-SNTSESFKF(H-SNTSESF)RVTQLAPKAQIKE-NH ₂	
Target:	PD-1/PD-L1	
Pathway:	Immunology/Inflammation	
Storage:	Sealed storage, away from moisture	
	Powder -80°C 2 years	
	-20°C 1 year	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

In Vitro

H₂O : 10 mg/mL (3.07 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			Concentration	1 mg	5 mg
1 mM			0.3066 mL	1.5330 mL	3.0660 mL
5 mM			---	---	---
10 mM			---	---	---

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

BIOLOGICAL ACTIVITY

Description

AUNP-12 (NP-12) is a peptide antagonist of the PD-1 signaling pathway, displays equipotent antagonism toward PD-L1 and PD-L2 in rescue of lymphocyte proliferation and effector functions. AUNP-12 exhibits immune activation, excellent antitumor activity, and potential for better management of immune-related adverse events (irAEs)^[1].

IC₅₀ & Target

PD-1 signaling pathway^[1]

In Vitro

AUNP-12 displays equipotent antagonism toward PD-L1 and PD-L2 in rescue of lymphocyte proliferation and effector functions^[1].
 AUNP-12 rescues the proliferation in the mouse splenocyte assay system, with average EC₅₀ values of 17 nM and 16.6 nM against rmPD-L1 and rmPD-L2 respectively^[1].
 AUNP-12 is also able to significantly rescue recombinant human PD-L1 and PD-L2 mediated inhibition of in vitro human PBMC proliferation, with average EC₅₀ values of 63.3 nM and 44.1 nM against PD-L1 and PD-L2 respectively^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sasikumar PG, et al. A Rationally Designed Peptide Antagonist of the PD-1 Signaling Pathway as an Immunomodulatory Agent for Cancer Therapy. Mol Cancer Ther. 2019 Jun;18(6):1081-1091.

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

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