AUNP-12

Cat. No.: HY-P1812  
CAS No.: 1353563-85-5  
Molecular Formula: C₁₄₂H₂₂₆N₄₀O₄₈  
Molecular Weight: 3261.55  
Sequence: Ser-Asn-Thr-Ser-Glu-Ser-Phe-Lys(Ser-Asn-Thr-Ser-Glu-Ser-Phe)-Phe-Arg-Val-Thr-Gln-Leu-Ala-Pro-Lys-Ala-Gln-Ile-Lys-Glu-NH2  
Sequence Shortening: H-SNTSESFKF(H-SNTSESF)RVTQLAPQIE-NH2  
Target: PD-1/PD-L1  
Pathway: Immunology/Inflammation  
Storage: Please store the product under the recommended conditions in the COA.

**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].

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<tr>
<th>IC₅₀ &amp; Target</th>
<th>PD-1 signaling pathway[1]</th>
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**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].

**REFERENCES**


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