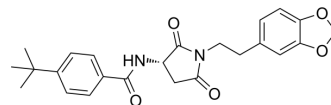


## TNF- $\alpha$ -IN-11

Cat. No.:	HY-149331
Molecular Formula:	C <sub>24</sub> H <sub>26</sub> N <sub>2</sub> O <sub>5</sub>
Molecular Weight:	422.47
Target:	TNF Receptor; Caspase; NF- $\kappa$ B
Pathway:	Apoptosis; NF- $\kappa$ B
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

TNF- $\alpha$ -IN-11 (Compound 10) is a TNF- $\alpha$  inhibitor with a  $K_D$  value of 12.06  $\mu$ M. TNF- $\alpha$ -IN-11 binds to TNF- $\alpha$  and blocks the activation of TNF- $\alpha$ -triggered caspase and NF- $\kappa$ B signaling pathway. TNF- $\alpha$ -IN-11 inhibits the phosphorylation of I $\kappa$ B $\alpha$ , as well as the nuclear translocation of NF  $\kappa$ B p65. TNF- $\alpha$ -IN-11 can be used for research of TNF- $\alpha$ -mediated autoimmune diseases<sup>[1]</sup>.

### REFERENCES

[1]. Yang Y, et al. Structure-Based Drug Design and Synthesis of Pyrrolidine-2,5-diones as Novel TNF- $\alpha$  Inhibitors. J Chem Inf Model. 2023 Jun 26;63(12):3911-3924.

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

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