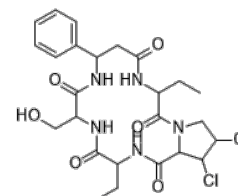


Product Name : Astin C
Cat. No. : PC-23967
CAS No. : 148057-23-2
Molecular Formula : C₂₅H₃₃Cl₂N₅O₆
Molecular Weight : 570.47
Target : STING
Solubility : 10 mM in DMSO



Biological Activity

Astin C is a specific, cyclopeptide inhibitor of cGAS-STING signaling, binds to STING C-terminal binding domain (CBD) with K_d of 2.37 μM (STING-CTD-H232), blocks the recruitment of IRF3 onto the STING signalosome and restricts STING activation and signaling.

Astin C exhibits inhibitory effect on intracellular DNA-induced Ifnb expression is dose dependent, with IC₅₀ (half maximal inhibitory concentration) values of 3.42 and 10.83 μM for mouse embryonic fibroblasts (MEFs) and IMR-90 cells (human fetal lung fibroblasts), respectively.

Astin C markedly attenuates the autoinflammatory responses in Trex1^{-/-} BMDM cells and in Trex1^{-/-} mouse autoimmune disease model.

References

Li S, et al. Cell Rep. 2018 Dec 18;25(12):3405-3421.e7.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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