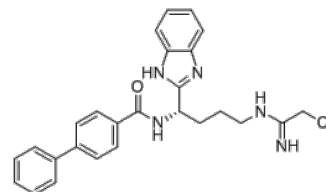


**Product Name** : BB-Cl-Amidine  
**Cat. No.** : PC-20328  
**CAS No.** : 1802637-39-3  
**Molecular Formula** : C<sub>26</sub>H<sub>26</sub>ClN<sub>5</sub>O  
**Molecular Weight** : 459.98  
**Target** : Protein Arginine Deiminase (PAD)  
**Solubility** : 10 mM in DMSO



1. Humphries F, et al. *Proc Natl Acad Sci U S A*. 2023 Aug 15;120(33):e2305420120.

## Biological Activity

BB-Cl-Amidine is a **peptidylarginine deiminase (PAD)** inhibitor, irreversibly inactivates all four PAD subtypes (kinact/KI=16,100, 4,100, 6,800, and 13,300 M<sup>-1</sup>min<sup>-1</sup> for PAD1-4, respectively).

BB-Cl-Amidine also is a potent small-molecule inhibitor of **STING** targeting STING oligomerization.

BB-Cl-Amidine inhibits STING signaling and production of type I IFNs, IFN-stimulated genes (ISGs) and NFκB-dependent cytokines, but not other pattern recognition receptors.

BB-Cl-amidine alleviated pathology resulting from accrual of cytosolic DNA in Trex-1 mutant mice.

BB-Cl-Amidine inhibited STING oligomerization through modification of Cys148.

## References

