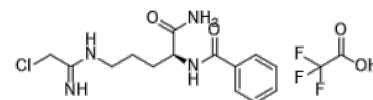

Product Name	: Cl-amidine TFA
Cat. No.	: PC-22866
CAS No.	: 1043444-18-3
Molecular Formula	: C ₁₆ H ₂₀ ClF ₃ N ₄ O ₄
Molecular Weight	: 424.81
Target	: Protein Arginine Deiminase (PAD)
Solubility	: 10 mM in DMSO



Biological Activity

Cl-amidine TFA is a potent, irreversible, orally active inhibitor of protein arginine deiminases (PADs) with IC₅₀ of 0.8, 6.2, and 5.9 μM for PAD1, PAD3, and PAD4, respectively.

Cl-amidine is cytotoxic to HL-60, MCF-7, and HT-29 cancer cells (IC₅₀s = 0.25, 0.05, and 1 μM, respectively).

Cl-amidine (50 mg/kg) reduces ex vivo extracellular neutrophil extracellular trap (NET) formation and increases survival in a mouse model of sepsis induced by cecal ligation and puncture (CLP).

Cl-amidine also decreases the citrulline content in serum and joints and reduces the development of IgG autoantibodies in a mouse model of collagen-induced arthritis in a dose-dependent manner.

References

Yuan Luo, et al. *Biochemistry*. 2006 Oct 3; 45(39): 11727–11736.

Witalison EE, et al. *Oncotarget*. 2015 Nov 3;6(34):36053-62.

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

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