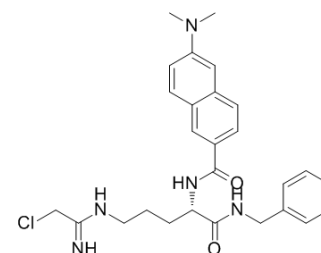


YW3-56

Cat. No.:	HY-112903
CAS No.:	1374311-17-7
Molecular Formula:	C ₂₇ H ₃₂ ClN ₅ O ₂
Molecular Weight:	494.03
Target:	Protein Arginine Deiminase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	YW3-56 is a potent peptidylarginine deiminase (PAD) inhibitor, with an IC ₅₀ of 1-5 μM for PAD4.
IC ₅₀ & Target	IC ₅₀ : 1-5 μM (PAD4) ^[1] .
In Vitro	Compared with Cl-amidine, YW3-56 shows >60-fold increase in cell growth inhibition efficacy (IC ₅₀ about 2.5 μM) but only 5-fold increase in PAD4 inhibition (IC sub>50 about 1-5 μM). At 2-4 μM concentrations, YW3-56 displays mainly cytostatic effects by slowing cell division, whereas at higher concentrations, it exerts cytotoxic effects by altering cell morphology and killing cells ^[1] .

REFERENCES

[1]. Wang Y, et al. Anticancer peptidylarginine deiminase (PAD) inhibitors regulate the autophagy flux and the mammalian target of rapamycin complex 1 activity. *J Biol Chem.* 2012 Jul 27;287(31):25941-53.

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

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