

Product Datasheet

BB-Cl-Amidine

Catalog No. **BP-01931** · CAS **1802637-39-3** · Form **free base** · Physical state **solid** · Color **white to off-white** · Version **1.0** · Revision **2026-09-03**

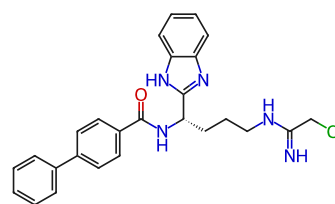
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Target Protein Arginine Deiminase	Research area Inflammation/Immunology
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Molecular formula **C₂₆H₂₆ClN₅O**

Molecular weight **459.9710**

STRUCTURE



DESCRIPTION

BB-Cl-Amidine is a peptidylarginine deiminase (PAD) inhibitor.

BIOLOGICAL ACTIVITY

In Vivo

Treatment with BB-Cl-amidine subtly reduces splenomegaly in MRL/lpr mice, while there is a trend towards increased circulating levels of anti-NET antibodies with PAD inhibitor treatment. However, neither PAD inhibitor affected body weight or total IgG levels. Indeed, treatment with both Cl-amidine and BB-Cl-amidine significantly improves endothelium-dependent vasorelaxation. The BB-Cl-amidine group also shows a strong trend towards downregulation of IRGs. Treatment with either Cl-amidine or BB-Cl-amidine significantly improves muzzle alopecia, in many cases preventing it entirely.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1]. Knight JS, et al. Peptidylarginine deiminase inhibition disrupts NET formation and protects against kidney, skin and vascular disease in lupus-prone MRL/lpr mice. Ann Rheum Dis. 2015 Dec;74(12):2199-206.

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