

Product Datasheet

BOC-PNA-C(Z)-OH

Catalog No. **BP-00007** · CAS **144564-94-3** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-24**

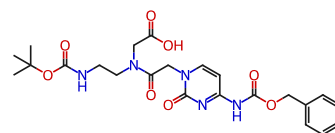
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Target Drug Intermediate	Research area Others
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Molecular formula **C₂₃H₂₉N₅O₈**

Molecular weight **503.5051**

STRUCTURE



DESCRIPTION

Boc-PNA-C (Z)-OH is a cytosine-containing peptide nucleic acid monomer, in which the amino group and cytosine are protected by tert-butoxycarbonyl (Boc) and benzyloxycarbonyl groups, respectively. Boc-PNA-C (Z)-OH can be used for the synthesis of peptide nucleic acids.

BIOLOGICAL ACTIVITY

In Vitro

Boc-PNA-C (Z)-OH enables precise incorporation of cytosine analogs into peptide nucleic acid sequences, and is commonly used for constructing peptide nucleic acid chains.

REFERENCES

[1]. Ackermann D, et al. Pseudo-complementary PNA actuators as reversible switches in dynamic DNA nanotechnology. *Nucleic Acids Res.* 2013;41(8):4729-4739.