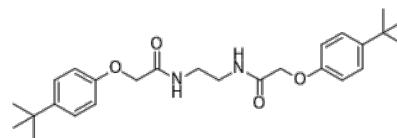


**Product Name** : NAC1 inhibitor NIC3  
**Cat. No.** : PC-23404  
**CAS No.** : 494830-67-0  
**Molecular Formula** : C<sub>26</sub>H<sub>36</sub>N<sub>2</sub>O<sub>4</sub>  
**Molecular Weight** : 440.58  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



CAS: 494830-67-0

## Biological Activity

NAC1 inhibitor NIC3 is a specific small molecule inhibitor of oncogenic nucleus accumbens-associated protein-1 (NAC1), inhibits NAC1 homodimerization, leading to proteasomal NAC1 degradation.

NIC3 binds to the conserved Leu-90 of NAC1 and prevents its homodimerization.

NIC3 accelerates the proteasomal degradation of NAC1 protein.

NIC3 significantly sensitizes drug-resistant tumor cells to cisplatin and Adriamycin in vitro and in vivo.

NIC3 significantly strengthens the therapeutic efficacy of bevacizumab in a metastatic breast cancer mouse model.

NIC3 is able to sensitize mice-bearing NAC1-expressing ovarian tumors to anti-PD-1 therapy.

## References

Wang X, et al. J Biol Chem. 2019 Jun 21;294(25):10006-10017.

Dong S, et al. Cancer Immunol Res. 2024 Nov 12. doi: 10.1158/2326-6066.CIR-24-0084.

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

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