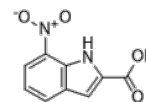


**Product Name** : CRT0044876  
**Cat. No.** : PC-27692  
**CAS No.** : 6960-45-8  
**Molecular Formula** : C<sub>9</sub>H<sub>6</sub>N<sub>2</sub>O<sub>4</sub>  
**Molecular Weight** : 206.16  
**Target** : DNA Repair Protein  
**Solubility** : 10 mM in DMSO



### Biological Activity

CRT0044876 is a potent, specific apurinic/apyrimidinic endonuclease 1 (**APE1**, also termed HAP1 and **Ref-1**) inhibitor with IC<sub>50</sub> of 3.06 uM, inhibits base excision repair.

CRT0044876 not only inhibits AP site cleavage catalyzed by purified APE1, but also cleavage directed by APE1 in a HeLa whole cell extract.

CRT0044876 is an inhibitor of the exonuclease III family of AP endonucleases, inhibits both the exonuclease and AP endonuclease activities of exonuclease III, but shows no inhibitory activity towards endonuclease IV.

CRT0044876 inhibits the 3'-phosphoglycolate diesterase activity of APE1 with an IC<sub>50</sub> of 5 uM.

### References

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Pidugu LS, et al. *PLoS One.* 2023 Jan 18;18(1):e0280526.

Koll TT, et al. *Mol Cancer Ther.* 2008 Jul;7(7):1985-92.

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

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