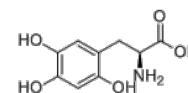


Product Name : 6-Hydroxy-DOPA
Cat. No. : PC-61924
CAS No. : 21373-30-8
Molecular Formula : C₉H₁₁NO₅
Molecular Weight : 213.189
Target : DNA Repair Protein
Solubility : 10 mM in DMSO



Biological Activity

6-Hydroxy-DOPA (6-OH-DOPA) is a small-molecule that disrupts with **RAD52** oligomerization, inhibits ssDNA binding by RAD52 with IC₅₀ of 1.1 μM and by RAD52 (1 209) with IC₅₀ of 1.6 μM.

6-Hydroxy-DOPA inhibits RAD52 foci formation in murine hematopoietic cells deficient in BRCA1, and kills BRCA-deficient cancer cells.

6-Hydroxy-DOPA also inhibits human apurinic/aprimidinic endonuclease APE1 and enhances the cytotoxic and genotoxic potency of the alkylating agent methylmethane sulfonate.

References

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Simeonov A, et al. *PLoS One*. 2009 Jun 1;4(6):e5740.

Hengel SR, et al. *Cell Chem Biol*. 2017 Sep 21;24(9):1101-1119.

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

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