

Product Name : 6-Hydroxy-DL-DOPA

Synonyms : 6-Hydroxy-DL-DOPA

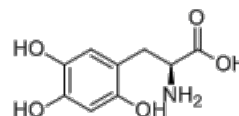
Cat No. : M13405

CAS Number : 21373-30-8

Molecular Formula : C₉H₁₁NO₅

Formula Weight : 213.19

Chemical Name : Alanine, 3-(2,4,5-trihydroxyphenyl)- (7Cl,8Cl)



Description : 6-Hydroxy-DL-DOPA is a small-molecule that disrupts with RAD52 oligomerization, inhibits ssDNA binding by RAD52 with IC₅₀ of 1.1 uM and by RAD52 (1 209) with IC₅₀ of 1.6 uM; inhibits RAD52 foci formation in murine hematopoietic cells deficient in BRCA1, and kills BRCA-deficient cancer cells; also inhibits human apurinic/aprimidinic endonuclease APE1 and enhances the cytotoxic and genotoxic potency of the alkylating agent methylmethane sulfonate.

Pathway : Cell Cycle/DNA Damage

Target : DNA Repair Protein

Receptor : DNA Repair Protein

Solubility : —

SMILES : NC(CC1=CC(O)=C(O)C=C1O)C(=O)O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Chandramouly G, et al. Chem Biol. 2015 Nov 19;22(11):1491-1504. | 2. Simeonov A, et al. PLoS One. 2009 Jun 1;4(6):e5740. | 3. Hengel SR, et al. Cell Chem Biol. 2017 Sep 21;24(9):1101-1119.