

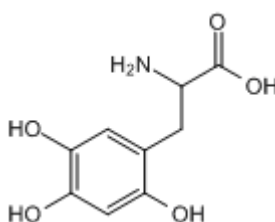
Certificate of Analysis

Product Name: 6-Hydroxy-DL-DOPA
CAS Number: 21373-30-8
IUPAC Name: 2,5-Dihydroxy-DL-tyrosine

Catalog No.: 5740 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₁₁NO₅
Batch Molecular Weight: 213.19
Physical Appearance: Brown solid
Solubility: 1M HCl to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.7	5.2	6.57
Found	50.59	5.12	6.64

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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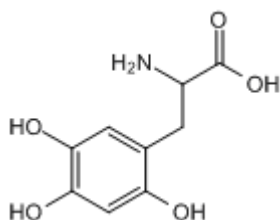
Description:

Allosteric inhibitor of RAD52; inhibits RAD52 binding to single strand DNA binding domains ($IC_{50} = 1.1 \mu\text{M}$). Selectively inhibits proliferation of BRCA-deficient cancer cells in vitro. Also inhibits APE1.

Physical and Chemical Properties:

Batch Molecular Formula: $C_9H_{11}NO_5$
 Batch Molecular Weight: 213.19
 Physical Appearance: Brown solid

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

1M HCl to 100 mM
 CAUTION: This product is very sensitive to air and light promoted oxidation. Therefore, as a precautionary measure we recommend that the solid material be stored at -20°C , away from light. Solutions should be freshly prepared and protected from exposure to light. We recommend that solutions are prepared by dissolving the compound in oxygen-free water containing 0.1% sodium metabisulfite.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45\text{-}60^{\circ}\text{C}$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Chandramouly et al (2015) Small-Molecule Disruption of RAD52 Rings as a Mechanism for Precision Medicine in BRCA-Deficient Cancers. *Chem.Biol.* **22** 1491. PMID: 26548611.

Wilson DM 3rd et al (2010) Small molecule inhibitors of DNA repair nuclease activities of APE1. *Cell Mol.Life Sci.* **67** 3621. PMID: 20809131.

Simeonov et al (2009) Identification and characterization of inhibitors of human apurinic/apyrimidinic endonuclease APE1. *PLoS One* **4** e5740. PMID: 19484131.

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