6-Hydroxy-DOPA

Cat. No.: HY-110286

CAS No.: 21373-30-8

Molecular Formula: $C_9H_{11}NO_5$

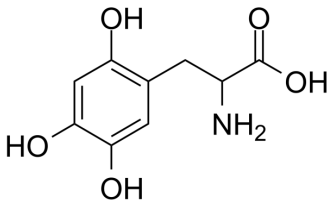
Molecular Weight: 213.19

Target: DNA/RNA Synthesis

Pathway: Cell Cycle/DNA Damage

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (234.53 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	4.6907 mL	23.4533 mL	46.9065 mL
	5 mM	0.9381 mL	4.6907 mL	9.3813 mL
	10 mM	0.4691 mL	2.3453 mL	4.6907 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

6-Hydroxy-DOPA is a selective and effective allosteric inhibitor of the RAD52 ssDNA binding domain. 6-Hydroxy-DOPA can be used for the research of cancer[1].

IC_{50} & Target

RAD52[1]

In Vitro

6-Hydroxy-DOPA (0~20 μM; U20S cells) selectively inhibits RAD52-mediated recombination. 6-Hydroxy-DOPA (0~10 μM; HEK293T cells) decreases the number of eGFP-RAD52 foci in a dose-dependent manner. 6-Hydroxy-DOPA (5~75 μM; HCC1937 cells) selectively reduces the viability of the BRCA1-deficient triple-negative breast cancer cell line HCC1937[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Chandramouly G, et al. Small-Molecule Disruption of RAD52 Rings as a Mechanism for Precision Medicine in BRCA-Deficient Cancers. Chem Biol. 2015;22(11):1491-1504.

Caution: Product has not been fully validated for medical applications. For research use only.

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