Data Sheet (Cat.No.T11600)

IBR2

Chemical Properties

CAS No.:	313526-24-8
Formula:	C24H20N2O2S
Molecular Weight:	400.49
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	IBR2 is a specific RAD51 inhibitor.
Targets(IC_{50})	RAD51: None
In vitro	IBR2 can inhibit the growth of triple-negative human breast cancer cell line MBA-MD-468 (IC50: 14.8 μM). IBR2 shows interesting RAD51 inhibition activities. RAD51 is rapidly degraded in IBR2-treated cancer cells, and the homologous recombination repair is impaired, subsequently leading to cell death. The IC50 values of the original IBR2 are in the range of 12-20 μM for most tested cancer cell lines.

Solubility Information

Solubility	DMSO: 100 mg/mL (249.69 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.497 mL	12.485 mL	24.969 mL
5 mM	0.499 mL	2.497 mL	4.994 mL
10 mM	0.25 mL	1.248 mL	2.497 mL
50 mM	0.05 mL	0.25 mL	0.499 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Zhu J, et al. Synthesis, molecular modeling, and biological evaluation of novel RAD51 inhibitors. Eur J Med Chem. 2015;96:196-208.

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