

YU238259

Catalog No: tcsc0017546



Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

1943733-16-1

Formula:

$C_{22}H_{22}ClN_3O_4S$

Pathway:

PI3K/Akt/mTOR; Cell Cycle/DNA Damage

Target:

DNA-PK; DNA-PK

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 300 mg/mL (652.24 mM)

Observed Molecular Weight:

459.95

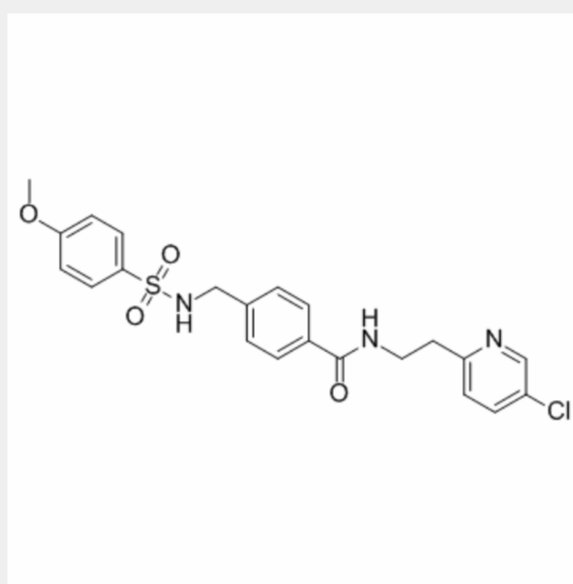
Product Description

YU238259 is an inhibitor of homology-dependent DNA repair (**HDR**), used for cancer research.

IC50 & Target: HDR^[1]

In Vitro: YU238259 is an inhibitor of homology-dependent DNA repair, with no effect on PARP activity. YU238259 shows cytotoxicity in BRCA2-deficient cells, with a low LD₅₀ of 8.5 μM. YU238259 (0-5 μM) causes a potent, dose-dependent decrease in HDR efficiency in U2OS DR-GFP or U2OS EJ5-GFP cells, but with no effect on NHEJ frequency. YU238259 (0-10 μM) exhibits synthetic lethality with loss of frequently mutated tumor suppressors, and shows synergism with radiotherapy (IR) and DNA-damaging chemotherapy that is potentiated by BRCA2 loss^[1].

In Vivo: YU238259 (3 mg/kg, i.p.) inhibits the growth of BRCA2-deficient tumor xenografts in nude mice^[1].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!