

Product Data Sheet

Product Name: RAD51-IN-1

Cat. No.: GC63165

Chemical Properties

Cas. No. 2101739-18-6

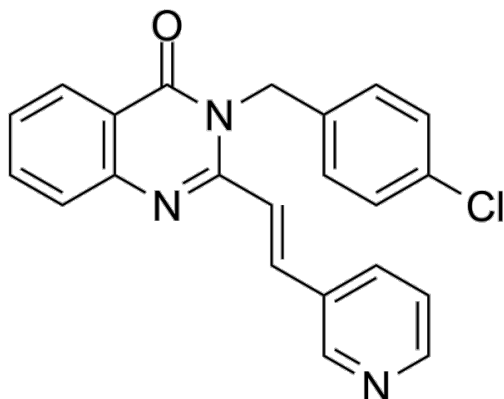
Formula $C_{22}H_{16}ClN_3O$ M.Wt 373.83

Solubility DMSO : 62.5 mg/mL (167.19 mM; Storage Store at -20°C
Need ultrasonic)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

RAD51-IN-1, a derivative of B02, is a potent inhibitor of RAD51. RAD51-IN-1 can be used for cancer research[1].

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

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RAD51 is a vital component of the homologous recombination DNA repair pathway and is overexpressed in drug-resistant cancers, including aggressive triple-negative breast cancer (TNBC) [1]. RAD51-IN-1 (10 μ M) decreases the ratio of RAD51 positive cells/CH2AX positive cells in MDA-MB-231 cell exposure to 6 Gy irradiation [1]. RAD51-IN-1 (10 μ M) significantly inhibits DNA damage induced RAD51 foci formation with 6 Gy irradiation [1].

[1]. Ambber Ward, et al. Quinazolinone derivatives as inhibitors of homologous recombinase RAD51. Bioorg Med Chem Lett. 2017 Jul 15;27(14):3096-3100.

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