

Product Data Sheet

Product Name: PARP-1-IN-3

Cat. No.: GC73272

Chemical Properties

Cas. No. 2976342-33-1

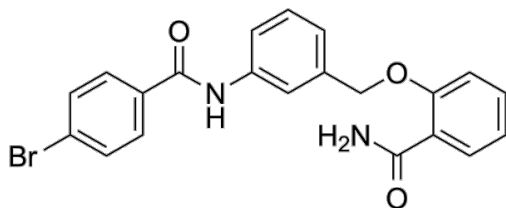
Formula $C_{21}H_{17}BrN_2O_3$ M.Wt 425.28

Solubility DMSO : 125 mg/mL (293.92 mM; Storage -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

PARP-1-IN-3, a benzamide derivative, is a potent PARP-1 inhibitor with IC₅₀ values of 0.25 nM and 2.34 nM for PARP-1 and PARP-2, respectively. PARP-1-IN-3 induces apoptosis and arrest cell cycle at G₂/M phase. PARP-1-IN-3 can be used in research of cancer.

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

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PARP-1-IN-3 (compound 13f; 48 h) has potent anticancer activity with IC₅₀ values of 0.30, 2.83, 33.69, and 486.87 μ M for HCT116, DLD-1, SW480, and NCM460 cells, respectively[1].PARP-1-IN-3 (0.3-3 μ M; 24-48 h) inhibits colony formation and migration of HCT116 cells[1].PARP-1-IN-3 (0.3-3 μ M; 48 h) induces accumulation of DNA double-strand breaks in HCT116 cells[1].PARP-1-IN-3 (0.3-7.5 μ M; 48-72 h) arrests cell cycle at G2/M phase, reduces mitochondrial membrane potential and ultimately induce apoptosis in HCT116 cells[1].

References:

[1]. Lu G, et, al. Discovery of novel benzamide derivatives bearing benzamidophenyl and phenylacetamidophenyl scaffolds as potential antitumor agents via targeting PARP-1. Eur J Med Chem. 2023 May 5;251:115243.

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