

Product Data Sheet

Product Name: OUL312
Cat. No.: GC79050

Chemical Properties

Cas. No.

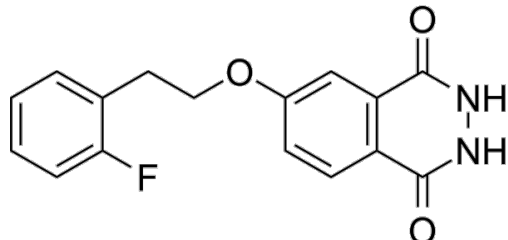
Formula $C_{16}H_{13}FN_2O_3$ M.Wt 300.28

Solubility DMSO: 10 mg/mL (33.30 mM; Need ultrasonic and warming) Storage Store at -20°C

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

OUL312 is a potent PARP10 inhibitor ($IC_{50} = 20$ nM), showing more than 75-fold greater selectivity for PARP15 ($IC_{50} = 1500$ nM). OUL312 is also at least 18-fold higher than all other human enzymes in the family. OUL312 has a good ADME profile, is able to enter cells, is not toxic, and effectively rescues human cells from PARP10-induced apoptosis at sub-micromolar concentrations. OUL312 can be used for the study of cervical cancer [1].

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

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In Vitro, OUL312 (Compound 15) (0.05-10 μ M, 10-12 days) shows no significant cytotoxicity in HeLa Flp-In TRex cells and could rescue Doxycycline -induced HeLa Flp-In TRex cells in a concentration-dependent manner^[1].

References:

[1]. Alaviuhkola J, et al. Optimization of 2,3-dihydrophthalazine-1,4-dione PARP inhibitor scaffold for nanomolar potency and specificity towards human PARP10. Eur J Med Chem. 2025 Dec 15;300:118111.

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