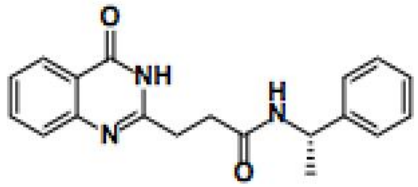
Xcess Biosciences Inc.
7144 N Harlem Ave #169
Chicago, IL 60631 USA

http://www.xcessbio.com
Toll free: 1-866-706-2330
Fax: 1-619- 810-0718
Email: info@xcessbio.com

PARP-3 Inhibitor – ME0328

Chemical Name: (S)-3-(4-oxo-3,4-dihydroquinazolin-2-yl)-N-(1-phenylethyl)propanamide



Molecular Weight:	321.37
Formula:	$C_{19}H_{19}N_3O_2$
Purity:	≥98%
CAS#:	1445251-22-8
Solubility:	DMSO up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

ME0328 is a potent, selective and cell permeable PARP-3 inhibitor with IC_{50} of 0.89 μM. It has good selectivity against PARP-1, PARP-2 and other ARDT enzymes. Enhances CRISPR-Cas9-mediated HER2 mutation frequency, resulting in increased reduction in proliferation of HER2-positive breast cancer cells.

How to Use:

In vitro: ME0328 was used at 10 μM in vitro and cellular assays.

In vivo: n/a

Reference:

1. Lindgren AE, et al. PARP inhibitor with selectivity toward ADP-ribosyltransferase ARTD3/PARP3. (2013) ACS Chem Biol. 8(8):1698-703.
2. Wang H, et al. CRISPR-mediated targeting of HER2 inhibits cell proliferation through a dominant negative mutation. (2017) Cancer Lett. 385:137-143.
3. Day TA, et al. PARP3 is a promoter of chromosomal rearrangements and limits G4 DNA. (2017) Nat Commun. 8:15110.