## Product Name:
ME 0328

## Catalog No.:
5054

## Batch No.:
1

## CAS Number:
1445251-22-8

## IUPAC Name:
3,4-Dihydro-4-oxo-3,4-Dihydro-4-oxo-N-[(1S)-1-phenylethyl]-2-quinazolinepropanamide

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### 1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:**
  \[ C_{19}H_{19}N_{3}O_{2} \]

- **Batch Molecular Weight:**
  321.37

- **Physical Appearance:**
  White solid

- **Solubility:**
  DMSO to 100 mM

- **Storage:**
  Store at +4°C

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### 2. ANALYTICAL DATA

- **TLC:**
  \( R_f = 0.6 \) (Chloroform:Methanol [9:1])

- **HPLC:**
  Shows 99.6% purity

- **\(^1\)H NMR:**
  Consistent with structure

- **Mass Spectrum:**
  Consistent with structure

- **Optical Rotation:**
  \([\alpha]_D = -37.8\) (Concentration = 0.65, Solvent = DMSO)

- **Microanalysis:**
  Carbon Hydrogen Nitrogen
  
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</table>

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**Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use**
**Product Information**

**Product Name:** ME 0328  
**Catalog No.:** 5054  
**Batch No.:** 1

**CAS Number:** 1445251-22-8  
**IUPAC Name:** 3,4-Dihydro-4-oxo-3,4-Dihydro-4-oxo-N-[(1S)-1-phenylethyl]-2-quinazolinepropanamide

**Description:**
Inhibitor of PARP-3 (IC$_{50}$ = 0.89 μM). Displays selectivity for PARP-3 over PARP-1, PARP-2 and other ARDT enzymes (IC$_{50}$ values are 6.3, 10.8 and >30 μM respectively). Enhances CRISPR-Cas9-mediated HER2 mutation frequency, resulting in increased reduction in proliferation of HER2-positive breast cancer cells. Cell permeable.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C$_{19}$H$_{19}$N$_{2}$O$_{2}$
- **Batch Molecular Weight:** 321.37
- **Physical Appearance:** White solid
- **Minimum Purity:** >98%

**Batch Molecular Structure:**

![Molecular Structure](image)

**References:**

**Storage:** Store at +4°C

**Solubility & Usage Info:**
- DMSO to 100 mM

**Stability and Solubility Advice:**
- Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).
- Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
  - SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
  - SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.