

Product Name: GeA-69

Catalog No.: 6795

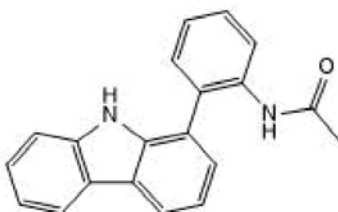
Batch No.: 1

CAS Number: 2143475-98-1

IUPAC Name: *N*-[2-(9*H*-Carbazol-1-yl)phenyl]acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₆N₂O
Batch Molecular Weight: 300.35
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	79.98	5.37	9.33
Found	79.43	5.39	9.24

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

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IUPAC Name: *N*-[2-(9*H*-Carbazol-1-yl)phenyl]acetamide

Description:

GeA-69 is a selective allosteric inhibitor of poly (ADP-ribose) polymerase 14 (PARP14) macrodomain 2 (MD2) (IC₅₀ = 720 nM, K_d = 860 nM). It inhibits adenosine diphosphate ribose (ADPR) binding to the macrodomain 2 of PARP14 and prevents PARP14 MD2 localization to DNA damage sites in intact cells. GeA-69 is highly cell permeable.

Physical and Chemical Properties:

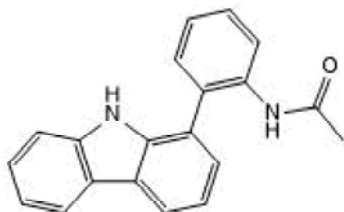
Batch Molecular Formula: C₂₀H₁₆N₂O

Batch Molecular Weight: 300.35

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 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.

References:

Moustakim *et al* (2018) Discovery of a novel allosteric inhibitor scaffold for polyadenosine-diphosphate-ribose polymerase 14 (PARP14) macrodomain 2. *Bioorg.Med.Chem.* **26** 2965. PMID: 29567296.

Schuller *et al* (2017) Discovery of a selective allosteric inhibitor targeting macrodomain 2 of polyadenosine-diphosphate-ribose polymerase 14. *ACS Chem.Biol.* **12** 2866. PMID: 28991428.

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