

Product Name: RIPA 56

Catalog No.: 7339

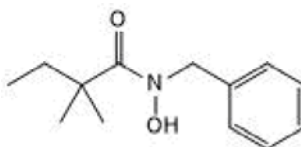
Batch No.: 1

CAS Number: 1956370-21-0

IUPAC Name: *N*-Hydroxy-2,2-dimethyl-*N*-(phenylmethyl)butanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₉NO₂.
Batch Molecular Weight: 221.3
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.56	8.65	6.33
Found	70.35	8.72	6.34

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

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IUPAC Name: *N*-Hydroxy-2,2-dimethyl-*N*-(phenylmethyl)butanamide

Description:

RIPA 56 is a potent and metabolically stable receptor-interacting protein kinase 1 (RIPK1) inhibitor ($EC_{50} = 13$ nM). RIPA-56 shows no inhibition of RIP3 kinase at 10 μ M. RIPA 56 blocks necroptosis and aging of the mouse male reproductive system. RIPA 56 reduces tumor necrosis factor α (TNF α)-induced mortality and multi-organ damage in a mouse model of systemic inflammatory response syndrome (SIRS). RIPA 56 is orally bioavailable.

Physical and Chemical Properties:

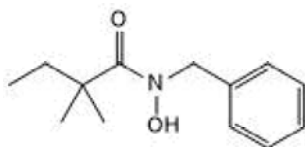
Batch Molecular Formula: C₁₃H₁₉NO₂.

Batch Molecular Weight: 221.3

Physical Appearance: White solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



References:

Zhuang et al (2019) Small-molecule inhibitors of necroptosis: current status and perspectives. *J.Med.Chem.* **63** 1490. PMID: 31622096.

Li et al (2017) RIPK1-RIPK3-MLKL-dependent necrosis promotes the aging of mouse male reproductive system. *Elife* **6** e27692. PMID: 28807105.

Ren et al (2017) Discovery of a highly potent, selective, and metabolically stable inhibitor of receptor-interacting protein 1 (RIP1) for the treatment of systemic inflammatory response syndrome. *J.Med.Chem.* **60** 972. PMID: 27992216.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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.

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