

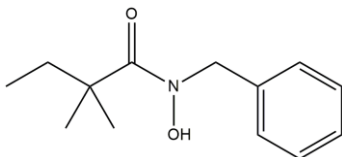
RIPA-56

06/20

ALTERNATE NAMES: N-benzyl-N-hydroxy-2,2-dimethylbutanamide

CATALOG #: B3051-5 5 mg
B3051-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₃H₁₉NO₂

MOLECULAR WEIGHT: 221.29

CAS NUMBER: 1956370-21-0

APPEARANCE: White to beige powder

PURITY: ≥98%

SOLUBILITY: ~2 mg/ml in DMSO

DESCRIPTION: RIPA-56 is a highly potent, selective, and metabolically stable inhibitor of Receptor-Interacting Protein 1 (RIP1) kinase with an IC₅₀ of 13 nM. It protects HT-29 cells against TNF α -induced necroptosis with an EC₅₀ of 28 nM. RIPA-56 efficiently reduces TNF α -induced mortality and multiorgan damage in a systemic inflammatory response syndrome (SIRS) mice model. Modulators of RIP kinase 1 may be beneficial against SARS-CoV-2 based on interaction of RIP kinase 1 with SARS-CoV-2 protein Nsp12.

STORAGE TEMPERATURE: -20°C

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCE: Ren, Y., Su, Y., Sun, L., et al., 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(3):972-986 (2017).

RELATED PRODUCTS:

Ditolylguanidine (Cat. No. B3044)
Remdesivir (Cat. No. B2997)
FK-506 (Cat. No. 1563)
SA4503 dihydrochloride (Cat. No. B3046)
Necrosulfonamide (Cat. No. 9635)

DISCLAIMER: ***FOR RESEARCH USE ONLY! Not to be used on humans.***