

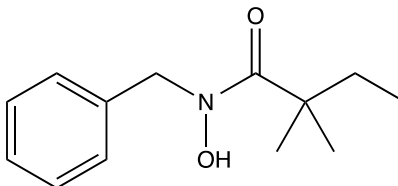
Catalog # 10-4611

RIPA-56

CAS# 1956370-21-0

N-Benzyl-N-hydroxy-2,2-dimethylbutanamide

Lot # FBA6086



RIPA-56 is a potent ($IC_{50} = 13$ nM, $EC_{50} = 28$ nM for HT-29 cells) and selective inhibitor of Receptor-Interacting Protein 1 (RIP1) kinase with significant metabolic stability ($t_{1/2} = 128$ min human liver microsomal stability assay). RIPA-56 showed excellent kinase selectivity and did not inhibit IDO at 200 μ M. It was able to block the progression of multiple sclerosis in an immune-induced demyelination model.²

- 1) 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
- 2) Zhang *et al.* (2019), *RIP1 kinase inhibitor halts the progression of an immune-induced demyelination disease at the stage of monocyte elevation*; *Proc.Natl.Acad.Sci.USA* **116** 5675

PHYSICAL DATA

Molecular Weight:	221.30
Molecular Formula:	C ₁₃ H ₁₉ NO ₂
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (>50 mg/mL) and Ethanol (>50 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or Ethanol may be stored at -20°C for up to 3 months.

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