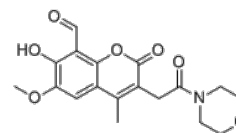


Product Name : ORIN1001
Cat. No. : PC-62739
CAS No. : 1338934-59-0
Molecular Formula : C₁₈H₁₉NO₇
Molecular Weight : 361.35
Target : IRE1
Solubility : 10 mM in DMSO



3. Logue SE, et al. *Nat Commun.* 2018 Aug 15;9(1):3267.

Biological Activity

ORIN1001 (MKC8866) is a specific small molecule inhibitor of mammalian **IRE1 RNase** activity with IC₅₀ of 0.29 μM. ORIN1001 (MKC8866) prevents the recombinant IRE1 protein from cleaving the synthetic XBP1 RNA probe, but has no effect on RNase A, RNase L and yeast IRE1 (scIRE1). ORIN1001 (MKC8866) suppresses growth of patient-derived tumors with high MYC expression. ORIN1001 (MKC8866) potentially sensitizes the tumors to the apoptotic and proliferation inhibitory effects of chemotherapy in vivo.

References

Zhao N, et al. *J Clin Invest.* 2018 Feb 26. pii: 95873.
Sanches M, et al. *Nat Commun.* 2014 Aug 28;5:4202.

