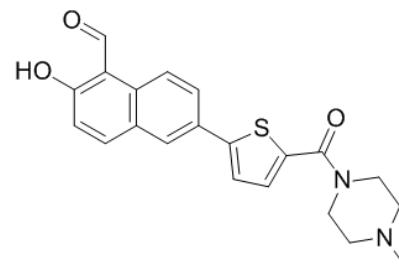


**Product Name** : MKC-3946  
**Cat. No.** : PC-45675  
**CAS No.** : 1093119-54-0  
**Molecular Formula** : C<sub>21</sub>H<sub>20</sub>N<sub>2</sub>O<sub>3</sub>S  
**Molecular Weight** : 380.4601  
**Target** : IRE1  
**Solubility** : 10 mM in DMSO (3.8 mg/mL)



## Biological Activity

MKC-3946 is a small-molecule **IRE1 $\alpha$**  endoribonuclease domain inhibitor, blocks XBP1 mRNA splicing and triggers growth inhibition in MM cells.

MKC-3946 enhances cytotoxicity of ER stressors; in vivo active in mice model of ER stress.

## References

Mimura N, et al. *Blood*. 2012 Jun 14;119(24):5772-81.

Zhang L, et al. *BMC Cell Biol*. 2014 Jul 10;15:29.

Sun H, et al. *Oncotarget*. 2016 Apr 5;7(14):18736-49.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com