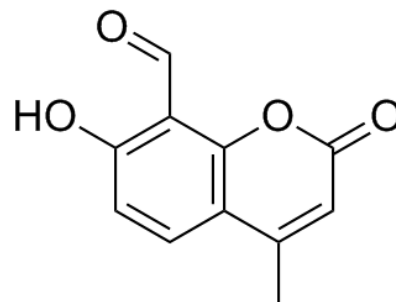


**Product Name** : 4 $\mu$ 8C  
**Cat. No.** : PC-45674  
**CAS No.** : 14003-96-4  
**Molecular Formula** : C<sub>11</sub>H<sub>8</sub>O<sub>4</sub>  
**Molecular Weight** : 204.1788  
**Target** : IRE1  
**Solubility** : DMSO:  $\geq$  27 mg/mL



### Biological Activity

4 $\mu$ 8C (IRE1 Inhibitor III) is a potent **IRE1 endonuclease** inhibitor, blocks substrate access to the active site of IRE1 and selectively inactivates both Xbp1 splicing and IRE1-mediated mRNA degradation.

4 $\mu$ 8C blocks IL-4, IL-5, and IL-13 production in T cells.

4 $\mu$ 8C prevents the splicing of the XBP1 mRNA in response to ER stress caused by mutant proinsulin production in an inducible mutant proinsulin (C96Y) insulinoma cell line.

### References

Cross BC, et al. *Proc Natl Acad Sci U S A*. 2012 Apr 10;109(15):E869-78.

Kemp KL, et al. *J Biol Chem*. 2013 Nov 15;288(46):33272-82.

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

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

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