

## Certificate of Analysis

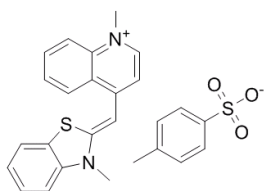
**Product Name:** Thiazole Orange  
**Cat. No.:** HY-D0150  
**CAS No.:** 107091-89-4  
**Batch No.:** 20039  
**Chemical Name:** Quinolinium, 1-methyl-4-[(3-methyl-2(3H)-benzothiazolylidene)methyl]-, 4-methylbenzenesulfonate (1:1)

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:** C<sub>26</sub>H<sub>24</sub>N<sub>2</sub>O<sub>3</sub>S<sub>2</sub>  
**Molecular Weight:** 476.61  
**Storage:**

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month

**Chemical Structure:**



### ANALYTICAL DATA

**Appearance:** Pink to red (Solid)  
**<sup>1</sup>H NMR Spectrum:** Consistent with structure  
**LCMS:** Consistent with structure  
**Purity (LCMS):** 99.82%  
**Conclusion:** The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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