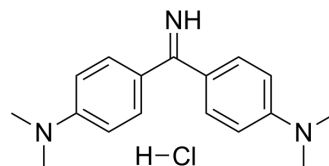


## Auramine O

<b>Cat. No.:</b>	HY-D0933
<b>CAS No.:</b>	2465-27-2
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>22</sub> ClN <sub>3</sub>
<b>Molecular Weight:</b>	303.83
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 16.67 mg/mL (54.87 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.2913 mL	16.4566 mL	32.9131 mL
	5 mM	0.6583 mL	3.2913 mL	6.5826 mL
	10 mM	0.3291 mL	1.6457 mL	3.2913 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Auramine O is a yellow fluorescent dye and can be used to stain acid-fast bacteria. Auramine O is toxic and resistant in the environment<sup>[1][2]</sup>.

### REFERENCES

- [1]. Kommareddi S, et al. Nontuberculous mycobacterial infections: comparison of the fluorescent auramine-O and Ziehl-Neelsen techniques in tissue diagnosis. Hum Pathol. 1984 Nov;15(11):1085-9.
- [2]. Hosseinpour S A, et al. Use of metal composite MOF-5-Ag2O-NPs as an adsorbent for the removal of Auramine O dye under ultrasound energy conditions. Applied Organometallic Chemistry, 2018, 32(2): e4007.

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

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