

## Hydroxystilbamidine

Cat. IH1860

**Storage:** Powder: -20°C, 2 years; Insolvent : -20°C, 6 months; -80°C, 1 year (protect from light)

### Introduction

Hydroxystilbamidine is a dye that binds both DNA and RNA and exhibits a significantly different fluorescence emission spectrum when bound to DNA compared to RNA. This cationic dye is also commonly used as a retrograde tracer of neurons and as a histochemical stain.

### Parameter

Ex/Em: 360/625nm

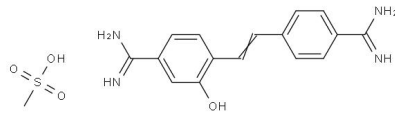
CAS: 223769-64-0

Molecular Formula: C<sub>18</sub>H<sub>24</sub>N<sub>4</sub>O<sub>7</sub>S<sub>2</sub>

Molecular Weight: 472.54

Appearance: Light yellow to yellow Solid

Solubility: Soluble in Water



### Protocols (only for reference)

#### Preparation of storage solution

Use ultrapure water to prepare the appropriate concentration of stock solution.

Note: Unused stock solution is recommended to be stored in portions at -20°C to avoid repeated freezing and thawing.

Solvent Concentration	Mass		
	1mg	5mg	10mg
1mM	2.1162mL	10.5811mL	21.1622mL
5mM	0.4232mL	2.1162mL	4.2324mL
10mM	0.2116mL	1.0581mL	2.1162mL

### Note

1. All fluorescent dyes have quenching problems, please avoid light as much as possible to slow down the fluorescence quenching.
2. The final concentration of the working solution is recommended to be optimized according to different cell lines and experimental systems.
3. If it is found to be difficult to dissolve, it can be sonicated to promote dissolution.
4. For your safety and health, please wear lab coat and disposable gloves.
5. This product is for scientific research use only. Do not use in medicine, clinical diagnosis or treatment, food and cosmetics. Do not store in ordinary residential areas.