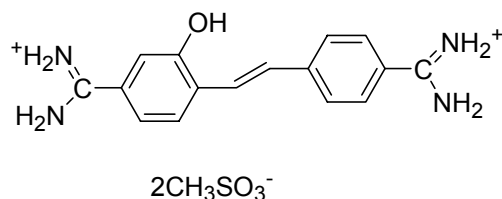


PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: Hydroxystilbamidine, methanesulfonate (also known as FluoroGold)

CATALOG #: 80014

MOLECULAR INFORMATION: C₁₈H₂₄N₄O₇S₂
Mwt: 473



PROPERTIES:

Color & Form Yellow solid
Purity ≥95% by HPLC
Solubility Soluble in water at 4% (**Solubility in PBS buffer is significantly lower!**)
Absorption λ_{abs}: 290 ~ 370nm (broad absorption in water)
Excitation/Emission When bound to membranes at pH 7.4, excitation band: 350-395nm (broad peak);
emission band: 530-600nm (broad peak).

STORAGE AND HANDLING: Store desiccated at 4 °C. Protect from light.

APPLICATION: Hydroxystilbamidine (or FluoroGold) has been used extensively as a retrograde tracer for neurons and also a histochemical stain. Fluoro-Gold has very broad spectra at physiological pH with absorption from 350nm to 400nm and emission from 530 to 620 nm. A wide band UV excitation filter is recommended for optimal excitation.

Ref.: 1) *Brain Res.* **377**, 147(1986); 2) *Brain Res.* **475**, 259(1988); 3) *J. Neurosci. methods*, **23**, 1(1988); 4) *Brain Res.* **553**, 135(1991); 5) *J. Neurosci. methods*, **45**, 87(1992)

TOXICITY: Unknown.

FIRST AID: Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.

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