

# Certificate of Analysis

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**Product Name:** Naloxone fluorescein acetate

**Catalog No.:** 6046

**Batch No.:** 2

**CAS Number:** 2080300-52-1

**IUPAC Name:** *N*-(3',6'-Dihydroxy-3-oxospiro[isobenzofuran-1(3*H*),9'-[9*H*]xanthen]-5-yl)-2-[(5α)-4,5-epoxy-3,14-dihydroxy-17-(2-propenyl)morphinan-6-ylidene]hydrazinecarbothioamide acetate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>40</sub>H<sub>34</sub>N<sub>4</sub>O<sub>8</sub>S.C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>

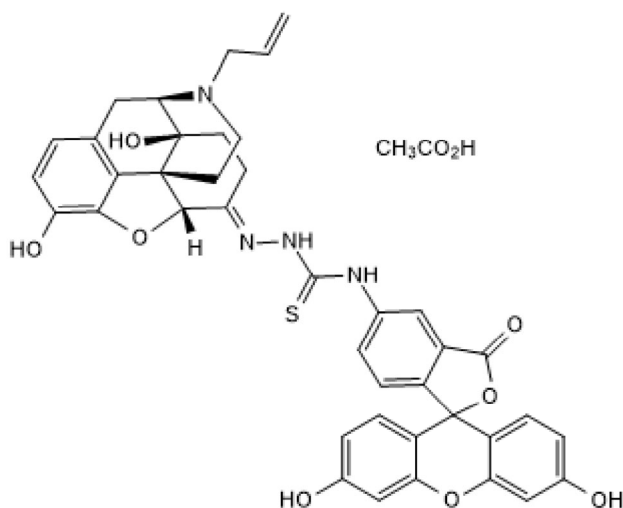
**Batch Molecular Weight:** 790.84

**Physical Appearance:** Orange solid

**Solubility:** DMSO to 0.50 mg/ml

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**Mass Spectrum:** Consistent with structure

**λ<sub>max</sub>:** 492 nm (potassium phosphate buffer)

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Naloxone fluorescein acetate is a fluorescent opioid antagonist; fluorescent derivative of naloxone (Cat. No. 0599). Excitation/emission λ ~ 492/517 nm at pH 10.

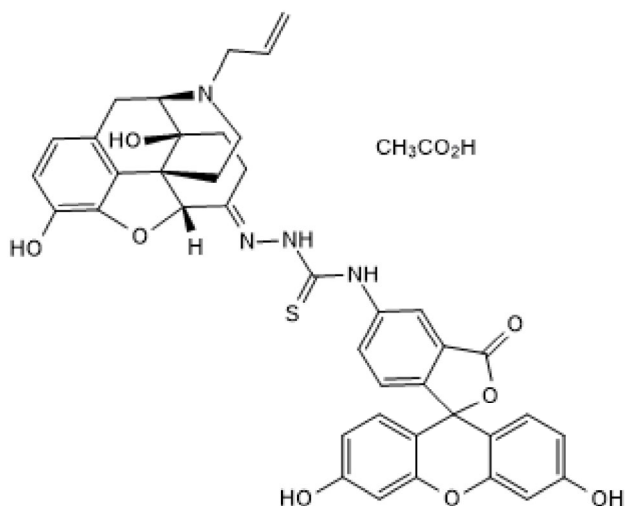
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>40</sub>H<sub>34</sub>N<sub>4</sub>O<sub>8</sub>S.C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>

Batch Molecular Weight: 790.84

Physical Appearance: Orange solid

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 0.50 mg/ml

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Friesen *et al*** (2014) Opioid receptor activation triggering downregulation of cAMP improves effectiveness of anti-cancer drugs in treatment of glioblastoma. *Cell Cycle* **13** 1560. PMID: 24626197.

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