# Products Description

**Lucifer yellow CH lithium salt**

- **Name:** Lucifer yellow CH lithium salt
- **Catalog Number:** FP-15437A, 25 mg
- **Structure:** C_{13}H_{9}Li_{2}N_{5}O_{9}S_{2}
- **Molecular Weight:** 457.24
- **Solubility:** In DMF, DMS and water
- **Absorption / Emission:** \( \lambda_{ex} \lambda_{em} = 428 \text{ nm/536 nm} \)
- **EC (M⁻¹ cm⁻¹):** 12 000

**Lucifer yellow CH potassium salt**

- **Name:** Lucifer yellow CH potassium salt
- **Catalog Number:** FP-52489A, 25 mg
- **Structure:** C_{13}H_{9}K_{2}N_{5}O_{9}S_{2}
- **Molecular Weight:** 521.6
- **Solubility:** In water
- **Absorption / Emission:** \( \lambda_{ex} \lambda_{em} = 427 \text{ nm/535 nm} \)
- **EC (M⁻¹ cm⁻¹):** 12 000

**Lucifer yellow ethylenediamine**

- **Catalog Number:** FP-53451A, 25 mg
- **Structure:** C_{13}H_{10}K_{2}N_{5}O_{9}S_{2}
- **Molecular Weight:** 491.6
- **Solubility:** Soluble in DMSO, DMF, water
- **Absorption / Emission:** \( \lambda_{ex} \lambda_{em} = 426 \text{ nm/531 nm} \)
- **References:**

**Lucifer Yellow anhydride dipotassium salt**

- **Catalog Number:** FP-BT8930
- **Structure:** [4-Amino-3,6-disulfoo-1,8-naphthalic anhydride dipotassium salt,
  1H,3H-Naphtho[1,8-cd]pyran-5,8-disulfonic acid, 6-amino-1,3-dioxo-, dipotassium salt]
- **MW:** 449.5
- **Solubility:** Building block to water soluble polar tracer such as lucifer yellow probes

**Lucifer yellow cadaverine**

- **Catalog Number:** FP-86413A
- **Structure:** [N-(2-Aminopentyl)-4-amino-3,6-disulfo-1,8-naphthalene, dipotassium salt]
- **MW:** 533.67
- **Solubility:** Water soluble polar tracer ; (Z)
- **References:**

**Storage:** +4°C (or –20°C for long term) (K). Protect from light and moisture
Introduction

Lucifer yellow CH, a fluorescent disulfonic acid anionic dye, is a water-soluble dye with excitation/emission peaks of 428/536 nm. It is a favorite tool for studying neuronal morphology, because it contains a carbohydrazide (CH) group that allows it to be covalently linked to surrounding biomolecules during aldehyde fixation.

The lithium salt form (LY CH lithium salt) of the lucifer yellow CH is commonly used for microinjection because it has higher solubility than the potassium salt forms of lucifer yellow CH.

The potassium salt form (LY CH potassium salt) may be preferred in applications where lithium ions interfere with biological function.

References – 15437

1; Dynamics from a time series: can we extract the phase resetting curve from a time series?* Oprisan SA, Thirumalai V, Canavier CC. Biophys J 84, 2919-28 (2003)
2; Lucifer Yellow slows voltage-gated Na+ current inactivation in a light-dependent manner in mice." Higure Y, Katayama Y, Takeuchi K, Ohtabo Y, Yoshii K. J Physiol (2003)
3; Inhibition of lipid peroxidation and structure-activity-related studies of the dietary constituents anthocyanins, anthocyanidins, and catechins.* Seeram NP, Nair MG. J Agric Food Chem 50, 5308-12 (2002)

Related products

See BioSciences Innovations catalogue and e-search tool.

- α-bungarotoxin FITC, FP-52482A
- α-bungarotoxin SR101, FP-22597A
- α-bungarotoxin TMR, FP-52509A
- α-bungarotoxin –XX-Biotin, FP-85895A

Ordering information

Catalog size quantities and prices may be found at http://www.interchim.com

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