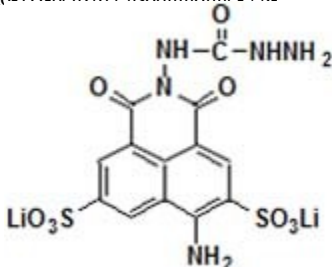
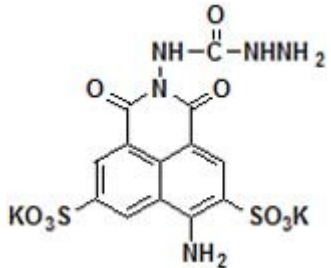


Lucifer Yellow

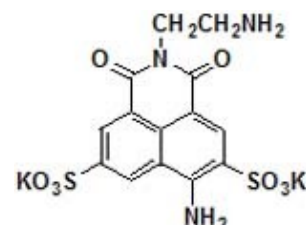
Products Description

| | | |
|--|---|---|
| Name : | Lucifer yellow CH lithium salt |  |
| | Benz[de]isoquinoline-5,8-disulfonic acid, 6-amino-2-[(hydrazinocarbonyl)amino]-2, 3-dihydro-1,3-dioxo-, dilithium salt; 6-Amino-2,3-dihydro-1,3-dioxo-2-hydrazinocarbonylamino-1H-benz[de]isoquinoline-5,8-disulfonic acid dilithium 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 : | $\lambda_{exc}/\lambda_{em} = 428 \text{ nm}/536 \text{ nm}$ | |
| EC (M⁻¹ cm⁻¹) : | 12 000 | |

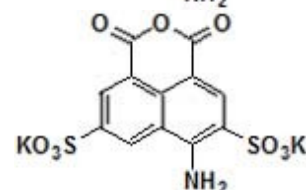
| | | |
|--|--|--|
| Name : | Lucifer yellow CH potassium salt |  |
| | 1H-Benz[de]isoquinoline-5,8-disulfonic acid, 6-amino-2-(hydrazinocarbonyl)amino]-2, 3-dihydro-1,3-dioxo-, dipotassium salt | |
| Catalog Number : | FP-52489A , 25 mg | |
| Structure : | C ₁₃ H ₉ K ₂ N ₅ O ₉ S ₂ | |
| Molecular Weight : | 521.6 | |
| Solubility: | In water | |
| Absorption / Emission : | $\lambda_{exc}/\lambda_{em} = 427 \text{ nm}/535 \text{ nm}$ | |
| EC (M⁻¹ cm⁻¹) : | 12 000 | |

Also available:

Lucifer yellow ethylenediamine **FP-53451A, 25 mg**
 1H-Benz[de]isoquinoline-5,8-disulfonic acid, 6-amino-2-(2-aminoethyl)-2,3-dihydro-1,3-dioxo-, dipotassium salt ; N-(2-Aminoethyl)-4-amino-3,6-disulfo-1,8-naphthalimide, dipotassium salt
MW: 491.6 Soluble in DMSO, DMF, water $\lambda_{exc}/\lambda_{em} = 426 \text{ nm}/531 \text{ nm}$
References:
 Polson NA, Hayes MA. Anal Chem 72, 1088-1092 (2000) [Water soluble polar tracer]



Lucifer Yellow anhydride dipotassium salt **FP-BT8930**
 [4-Amino-3,6-disulfo-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



Lucifer yellow cadaverine **FP-86413A**
 [N-(2-Aminopentyl)-4-amino-3,6-disulfo-1,8-naphthalene, dipotassium salt]
MW: 533.67 Soluble in DMSO and H₂O $\lambda_{exc}/\lambda_{em} = 425 \text{ nm}/531 \text{ nm}$
 Water soluble polar tracer ; (Z)



References :
 1; Giordano L, Jovin TM, Irie M, Jares-Erijman EA. J Am Chem Soc 124, 7481-7489 (2002)
 2; Pantoja S, Lee C, Marecek JF, Palenik BP. Anal Biochem 211, 210-218 (1993)

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 carbonylhydrazone (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, Ohtubo 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

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