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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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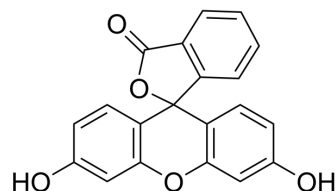
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Fluorescein

| | |
|--------------------|--|
| Cat. No.: | HY-D0251 |
| CAS No.: | 2321-07-5 |
| Molecular Formula: | C ₂₀ H ₁₂ O ₅ |
| Molecular Weight: | 332 |
| Target: | Fluorescent Dye |
| Pathway: | Others |
| Storage: | 4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



SOLVENT & SOLUBILITY

| | | | | | | |
|---|---|--------------------------|-----------|-----------|------------|------------|
| In Vitro | DMSO : 83.33 mg/mL (250.99 mM; Need ultrasonic) | | | | | |
| | H ₂ O : < 0.1 mg/mL (insoluble) | | | | | |
| | Preparing Stock Solutions | Solvent Concentration | Mass | 1 mg | 5 mg | 10 mg |
| | | | 1 mM | 3.0120 mL | 15.0602 mL | 30.1205 mL |
| | | | 5 mM | 0.6024 mL | 3.0120 mL | 6.0241 mL |
| 10 mM | | | 0.3012 mL | 1.5060 mL | 3.0120 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.27 mM); Clear solution | | | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.27 mM); Clear solution | | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------|---|
| Description | Fluorescein (Uranine) is widely used as a fluorescent tracer in medicinal and biological applications and tumor infected tissues tracer. Fluorescein (Uranine) is a representative green fluorophore that has been widely used as a scaffold of practically useful green fluorescent probes ^{[1][2]} . |
| In Vitro | Fluorescein is a synthetic organic photoactive dye compound soluble in water, alcohol and polar solvents ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

CUSTOMER VALIDATION

- Sci Bull. 2023 Dec 26.
- Cell Death Dis. 2023 Feb 7;14(2):91.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. RobertSjöback, et al. Absorption and fluorescence properties of fluorescein. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
- [2]. Nabel A Negm, et al. Fluorescein dye derivatives and their nanohybrids: Synthesis, characterization and antimicrobial activity. J Photochem Photobiol B. 2016 Sep;162:421-433.
- [3]. Li Liu, et al. Fluorescein as an artificial enzyme to mimic peroxidase. Chem Commun (Camb). 2016 Nov24;52(96):13912-13915.
- [4]. Hirabayashi K, et al. Analysis of chemical equilibrium of silicon-substituted fluorescein and its application to develop a scaffold for red fluorescent probes. Anal Chem. 2015;87(17):9061-9069.
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Caution: Product has not been fully validated for medical applications. For research use only.

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