

## Fluorescein Sodium

## Chemical Properties

CAS No. : 518-47-8

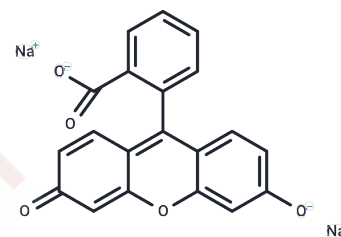
Formula: C<sub>20</sub>H<sub>10</sub>Na<sub>2</sub>O<sub>5</sub>

Molecular Weight: 376.27

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Fluorescein Sodium (VST-1001) is a phthalic indicator dye. It is used therapeutically as a diagnostic aid in corneal injuries and corneal trauma.
Targets(IC50)	Others
Animal Research	<p>Fluorescein Sodium live tissue imaging</p> <p>I. Solution preparation Preparation of mother solution and working solution: 0.01-0.1 g of fluorescein sodium powder is placed in a light-proof test tube, and 10 mL of saline is added to prepare a 1-10% fluorescein sodium solution. After fully dissolving, it is used as a working solution.</p> <p>II. Operation steps Mouse kidney staining</p> <ol style="list-style-type: none"> <li>1. The mouse is anesthetized by intraperitoneal injection of 1% sodium pentobarbital, and the kidney is completely removed during surgery.</li> <li>2. Use forceps and scissors to remove the kidney surface membrane, apply fluorescein sodium to the kidney surface for 2 minutes, and then wash it three times with saline.</li> <li>3. Apply 1% methylene blue staining solution to the surface for 2 minutes, wash it three times with saline after the time is up, and then observe it under a microscope at a wavelength of 470 nm.</li> </ol>

## Solubility Information

Solubility	DMSO: 3.77 mg/mL (10.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6577 mL	13.2883 mL	26.5767 mL
5 mM	0.5315 mL	2.6577 mL	5.3153 mL
10 mM	0.2658 mL	1.3288 mL	2.6577 mL
50 mM	0.0532 mL	0.2658 mL	0.5315 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Huimin Z, et al. WO2022252104A1, 2022-12-08

Bandamwar KL, et al. Fluorescein staining and physiological state of corneal epithelial cells. *Cont Lens Anterior Eye*. 2014 Jun;37(3):213-23.

Ung TH, Kellner C, Neira JA, Wang SH, D'Amico R, Faust PL, Canoll P, Feldstein NA, Bruce JN. The use of fluorescein sodium in the biopsy and gross-total resection of a tectal plate glioma. *J Neurosurg Pediatr*. 2015 Dec;16(6):732-5. doi: 10.3171/2015.5.PEDS15142. Epub 2015 Sep 25. PubMed PMID: 26407010.

Bhopate DP, Mahajan PG, Garadkar KM, Kolekar GB, Patil SR. Polyvinyl pyrrolidone capped fluorescent anthracene nanoparticles for sensing fluorescein sodium in aqueous solution and analytical application for ophthalmic samples. *Luminescence*. 2015 Nov;30(7):1055-63. doi: 10.1002/bio.2858. Epub 2015 Mar 3. PubMed PMID: 25736374.

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