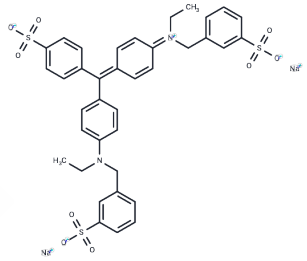
Data Sheet (Cat.No.T20913)

TargetMol

Light Green SF Yellowish

Chemical Properties



CAS No. : 5141-20-8

Formula: C37H34N2Na2O9S3

Molecular Weight: 792.85

Storage: Keep away from direct sunlight
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	Light Green SF Yellowish (Acid Green 5) is an alkaline stain used for staining animal tissues and for cytoplasmic and fiber staining in plant histology.
Targets(IC50)	Others
Cell Research	1. Masson trichrome staining method Used to distinguish muscle fibers, collagen fibers and fibrin in tissue sections. Experimental steps: 1. Fixation: Fix tissue samples with Bouin solution to enhance staining effect. 2. Staining: 1) Use Weigert iron hematoxylin to stain nuclei. 2) Use Biebrich Scarlet-Acid Fuchsin to stain cytoplasm and muscle fibers. 3) Use phosphomolybdic acid-phosphotungstic acid for differentiation. 4) Use Light Green SF Yellowish to stain collagen fibers. 4) Dehydration and sealing: Dehydrate through gradient alcohol, make xylene transparent, and finally seal with resin medium. 3. Staining results: 1) Collagen fibers: green 2) Muscle fibers: red 30 Cell nuclei: black 2. Papanicolaou staining method Used to distinguish cells in cytological samples in order to detect abnormalities. Experimental steps: 1. Fixation: Fix the smear with 95% ethanol. 2. Staining: Use Harris hematoxylin to stain cell nuclei; use OG-6 (Orange G) to stain keratinocytes; use EA solution (including Eosin Y, Light Green SF Yellowish and Bismarck Brown) to stain cytoplasm. 3. Dehydration and mounting: Dehydrate and transparently mount the slides for microscopic observation. 4. Staining results: 1) Surface cells: stained green or blue-green by Light Green SF Yellowish. 2) Intermediate and parabasal cells: stained pink to red. 3) Cell nuclei: blue.

Cell Research	The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.

Solubility Information

Solubility	Ethanol: Insoluble H2O: 1 mg/mL (1.26 mM),Sonication is recommended. DMSO: 11.9 mg/mL (15.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2613 mL	6.3064 mL	12.6127 mL
5 mM	0.2523 mL	1.2613 mL	2.5225 mL
10 mM	0.1261 mL	0.6306 mL	1.2613 mL
50 mM	0.0252 mL	0.1261 mL	0.2523 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

Sengprasert P,et al. Catabolic mediators from TLR2-mediated proteoglycan aggrecan peptide-stimulated chondrocytes are reduced by Lactobacillus-conditioned media. Sci Rep. 2024 Aug 5;14(1):18043.