Product Data Sheet

Product Name: Thioflavine S (Direct Yellow 7)
Cat. No.: GC30132

Chemical Properties

Cas. No.	1326-12-1		
SMILES	[Thioflavin S]		
Formula		M.Wt	
Solubility	Water : ≥ 50 mg/mL	Storage	Store at -20°C, protect from light
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Thioflavine S (Direct Yellow 7)		

Protocol

□□□□□□□□□□□□□□□□□□□□□□□□□□□□

1.□□□□□□□

(1)□□□□□□□□□Thioflavine S□□□1xPBS□□□□□□□□0.1mg/ml□□□□□□□□

(2)□□□□□□□□□Thioflavine S□□□50%□□□□□□□□□□0.125mg/ml□□□□□□□□

□□: □□□□□□□□□□□□□□□□□□□□□□

2.□□□□

(1)□□□□□□□□□□□□□□□□

(2)□□□□□□□□□□□□□□□1x PBS□□1-2□□

(3)□□ 4□□□□□□□□□□□□□□□□20min□

(4)□□□□□□□□□□100µL□□□□□□□□□□□□□□□□□□□□□□□□□□37 °C□□□□5-30□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

(5)□□□□□□□□□□□□□□□□□□1x PBS□□□□□□1-2□□

3.□□□□□□

(1) Thioflavine S□□□□□□□□□□□□□□□□□□

(2) □□□□□□□□□Thioflavine S□□□□□□□□□□□3-10□□□□□□□□□□□□□□□□□□□□□□□□

(3) □□□□50%□□□H_2O□□□□□□□□

4.□□□□□□Thioflavin S□□□□□□□□□□□□□□□□391/428nm□

□□□□□

1□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

2□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

References:

[1]. Megan E McLellan,et al. In vivo imaging of reactive oxygen species specifically associated with thioflavine S-positive amyloid plaques by multiphoton microscopy. 2003 Mar 15;23(6):2212-7. doi: 10.1523/JNEUROSCI.23-06-02212.2003.

[2].Anyang Sun, Xuan V Nguyen, Guoying Bing.Comparative analysis of an improved thioflavin-s stain, Gallyas silver stain, and immunohistochemistry for neurofibrillary tangle demonstration on the same sections. 2002 Apr;50(4):463-72. doi: 10.1177/002215540205000403.

[3].R Guntern, C Bouras, P R Hof, P G Vallet. An improved thioflavine S method for staining neurofibrillary tangles and senile plaques in Alzheimer's disease. 1992 Jan 15;48(1):8-10. doi: 10.1007/BF01923594.

Background

Product Data Sheet

Thioflavine S (Thioflavin S, Direct Yellow 7) is a fluorogenic compound which becomes fluorescent only after oxidation. Thioflavine S is used as a fluorescent histochemical marker of dense core senile plaques.Thioflavine S can bind to dense-core amyloid-β deposits.

[1] McLellan ME, et al. J Neurosci. 2003 Mar 15;23(6):2212-7. [1] Bacskai B J, et al. Nature medicine, 2001, 7(3): 369-372.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA