Proteins

Thioflavine S

Cat. No.: HY-D0972 CAS No.: 1326-12-1

Target: Fluorescent Dye

Pathway: Others

Storage: 4°C, protect from light

* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

Thioflavin S

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro	H ₂ O:≥50 mg/mL * "≥" means soluble, but saturation unknown.
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (Infinity mM); Clear solution; Need ultrasonic and warming and heat to 60°C

BIOLOGICAL ACTIVITY		
Description	Thioflavine S is a fluorescent histochemical marker of dense core senile plaques. Thioflavine S can be used for Alzheimer's research ^[1] .	
In Vitro	Thioflavine S staining protocol 1. Deparaffinization and hydration of tissue sections: Place slides in holders and treat with the clearing agent xylene (paraffin solvent) and a series of graded EtOH as follows: 100% xylene - 5 min 100% xylene - 5 min 50%/50% xylene/100% EtOH - 3 min 95% EtOH - 3 min 95% EtOH - 3 min 70% EtOH - 3 min Water - 2 x 3 min Note: Change the solns after about 5 uses or when you see the soln is not cleanly running off the slides, indicating too much paraffin in them. 2. Incubate in filtered 1% aqueous Thioflavine-S for 8 minutes at room temperature (filter Thioflavin-S before each use). Note: protect thioflavin-S from light, and protect the stained slides from light as much as possible. Thioflavin-S stain should be stored at 4 a. 3. Wash 2 x 3 min in 80% ethanol 4. Wash 3 min in 95% ethanol 5. Wash with 3 exchanges of distilled water	

6. Coverslip in aqueous mounting media and allow slides to dry in the dark overnight.

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7. Next day, seal coverslip with clear nail polish.

8. Analyze slides within the next few days-weeks because the staining will fade with time. Store the slides in the dark at 4 🗵 .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Adv Mater. 2022 Oct 4;e2207107.
- EBioMedicine. 2022 Apr;78:103980.
- Basic Res Cardiol. 2021 Dec 16;116(1):65.
- Alzheimers Res Ther. 2024 Jan 20;16(1):15.
- J Ginseng Res. 2021 Mar 22.

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REFERENCES

[1]. McLellan ME, et al. In vivo imaging of reactive oxygen species specifically associated with thioflavine S-positive amyloid plaques by multiphoton microscopy. J Neurosci. 2003 Mar 15;23(6):2212-7.

Caution: Product has not been fully validated for medical applications. For research use only.

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