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DATASHEET

Thioflavin T (ThT)

Product overview

Name Thioflavin T (ThT)

Cat No HB7143

Biological description Cell-permeable fluorescent amyloid stain for in vitro amyloid beta staining in brain tissues. Used to

> detect amyloid fibrils and to study amyloid fibril structure and the mechanism by which they form. Stains insoluble senile Aß plaques, confirms formation of β-sheet structure from mutant huntingtin exon-1 aggregates in vitro and may also be used to monitor polyglutamine amyloid formation of

tNhtt-42Q aggregates in Huntington's diseases models in vitro.

Alternative names Thioflavin T Dyes & stains **Biological action** >95% **Purity**

Description Cell-permeable fluorescent amyloid stain

Biological Data

Application notes Please see our Amyloid Beta Protocol

Solubility & Handling

Storage instructions Solubility overview

Important

-20°C

Soluble in water (10 mM), and in DMSO (5 mM)

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

Chemical Data

Chemical name 2-[4-(Dimethylamino)phenyl]-3,6-dimethylbenzothiazolium chloride

Molecular Weight 318.9

Chemical structure

Molecular Formula C₁₇H₁₉CIN₂S **CAS Number** 2390-54-7 **PubChem identifier**

SMILES CC1=CC2=C(C=C1)[N+](=C(S2)C3=CC=C(C=C3)N(C)C)C.[CI-]InChiKey

JADVWWSKYZXRGX-UHFFFAOYSA-M

Appearance Yellow solid

References

Mechanism of thioflavin T binding to amyloid fibrils.

Khurana R et al (2005) Journal of structural biology 151

PubMedID 16125973

fibrils.

Sulatskaya AI et al (2017) Scientific reports 7 **PubMedID** 28526838

The binding of thioflavin-T to amyloid fibrils: localisation and implications.

Krebs MR et al (2005) Journal of structural biology 149

PubMedID 15629655