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DATASHEET Thioflavin T (ThT)

Product overview

Name Cat No Biological description	Thioflavin T (ThT) HB7143 Cell-permeable fluorescent amyloid stain for <i>in vitro</i> 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 Aβ plaques, confirms formation of β-sheet structure from mutant huntingtin exon-1 aggregates <i>in vitro</i> and may also be used to monitor polyglutamine amyloid formation of
Alternative names Biological action Purity Description	tNhtt-42Q aggregates in Huntington's diseases models <i>in vitro</i> . Thioflavin T Dyes & stains >95% Cell-permeable fluorescent amyloid stain

Biological Data

Application notes

Please see our Amyloid Beta Protocol

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in water (10 mM), and in DMSO (5 mM)
Important	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
Molecular Weight
Chemical structure

Molecular Formula CAS Number PubChem identifier SMILES InChiKey Appearance 2-[4-(Dimethylamino)phenyl]-3,6-dimethylbenzothiazolium chloride 318.9 $\overbrace{C_{17}H_{19}CIN_2S}^{p_{17}}$ 2390-54-7

2390-54-7 16853 CC1=CC2=C(C=C1)[N+](=C(S2)C3=CC=C(C=C3)N(C)C)C.[Cl-] JADVWWSKYZXRGX-UHFFFAOYSA-M Yellow solid

References

Mechanism of thioflavin T binding to amyloid fibrils.

Khurana R et al (2005) Journal of structural biology 151PubMedID16125973

Thioflavin T fluoresces as excimer in highly concentrated aqueous solutions and as monomer being incorporated in amyloid

fibrils.

Sulatskaya AI et al (2017) Scientific reports 7PubMedID28526838

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

Krebs MR et al (2005) Journal of structural biology 149 PubMedID 15629655