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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 A β 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
Biological action Dyes & stains
Purity >95%

Description Cell-permeable fluorescent amyloid stain

Solubility & Handling

Storage instructions -20°C

Solubility overview

Important

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

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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

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 7 **PubMedID** 28526838

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