

Product Information Sheet

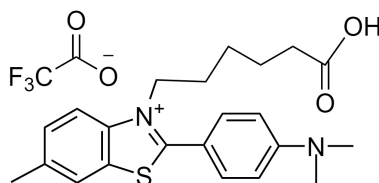
Ordering Information

Product Number: 23064
Product Name: Thioflavin T acid
Unit Size: 25 mg
Storage Conditions:
Expiration Date: 12 months upon receiving

Chemical and Spectral Properties

Appearance: solid
Molecular Weight: 496.55

Chemical Structure:



Soluble In: N/A
Excitation Wavelength: 412
Emission Wavelength: 482

Application Notes

Thioflavin T (ThT), also called Basic Yellow 1 or CI 49005, is a benzothiazole salt. The dye is used to visualize plaques composed of beta-amyloid found in the brains of Alzheimer's disease patients. When it binds to beta sheets, such as those in amyloid oligomers, the dye undergoes a characteristic 120 nm red shift of its excitation spectrum that may be selectively excited at 450 nm, resulting in a fluorescence signal at 482 nm. ThT binds rapidly and specifically to the anti-parallel beta-sheet fibrils formed from synthetic beta-amyloid (1-40), but does not bind to monomer or oligomeric intermediates. The binding of ThT does not interfere with the aggregation of beta-amyloid peptide into amyloid fibrils. Thioflavin T acid is a valuable tool for making various bioconjugates of Thioflavin T that can direct Thioflavin T to a desired target. It is an essential reagent to make the peptides and other conjugates of Thioflavin T.